

FIG.1

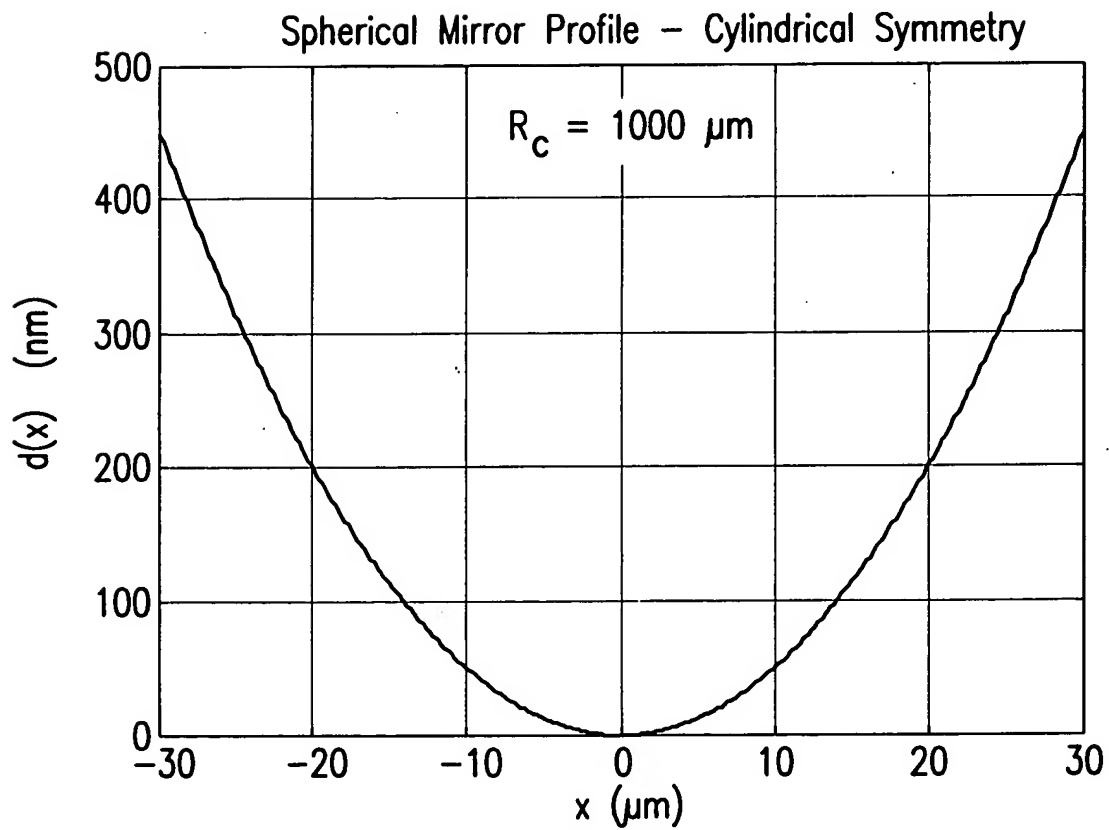


FIG.2

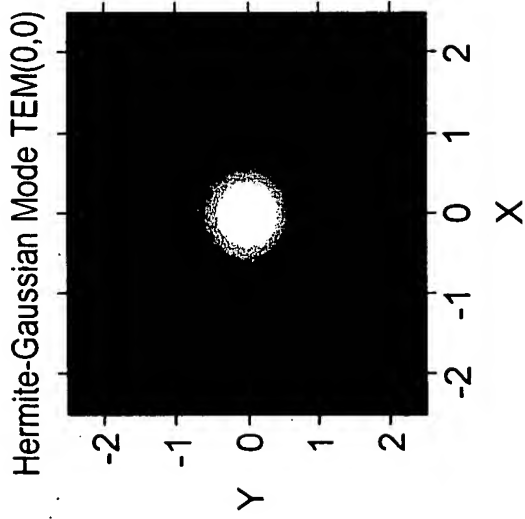


FIG.3A

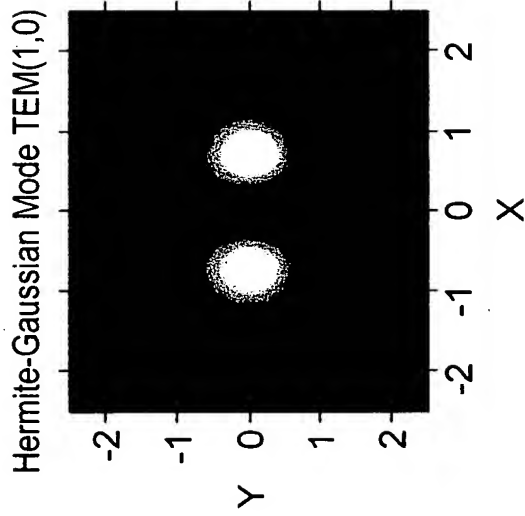


FIG.3B

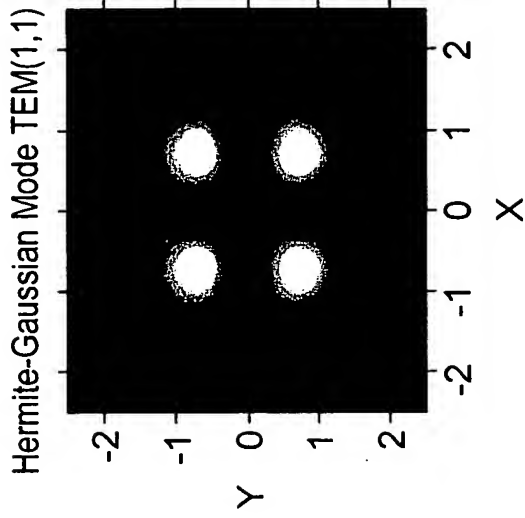


FIG.3C

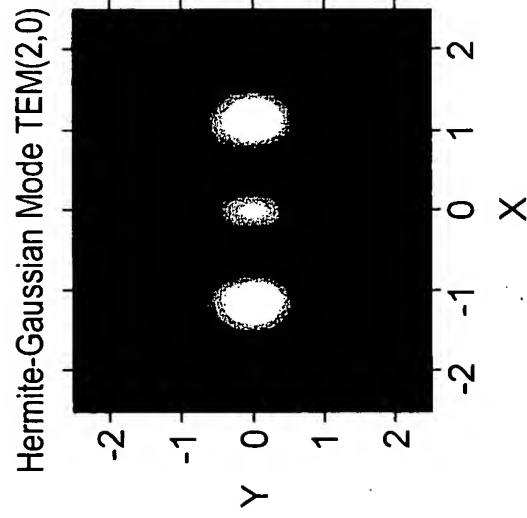


FIG.3D

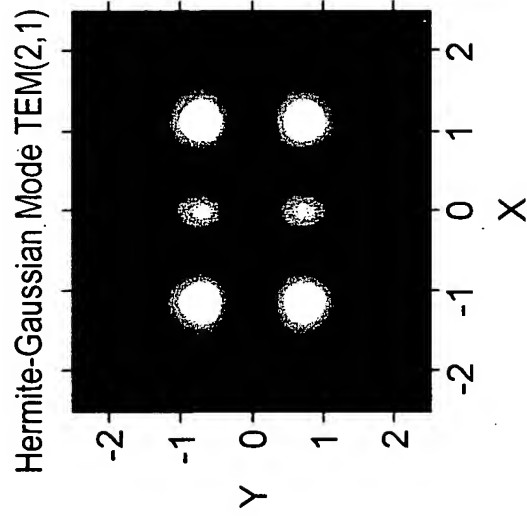


FIG.3E

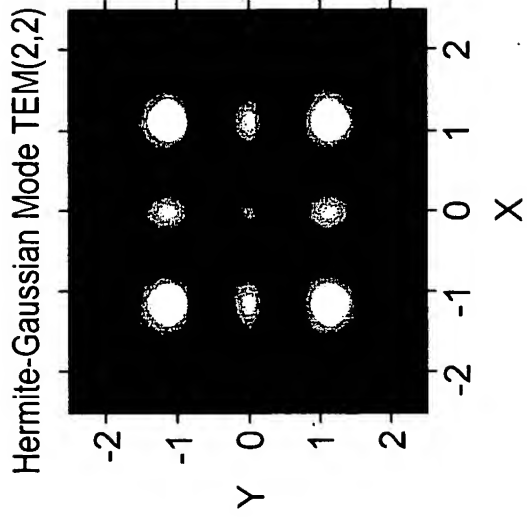


FIG.3F

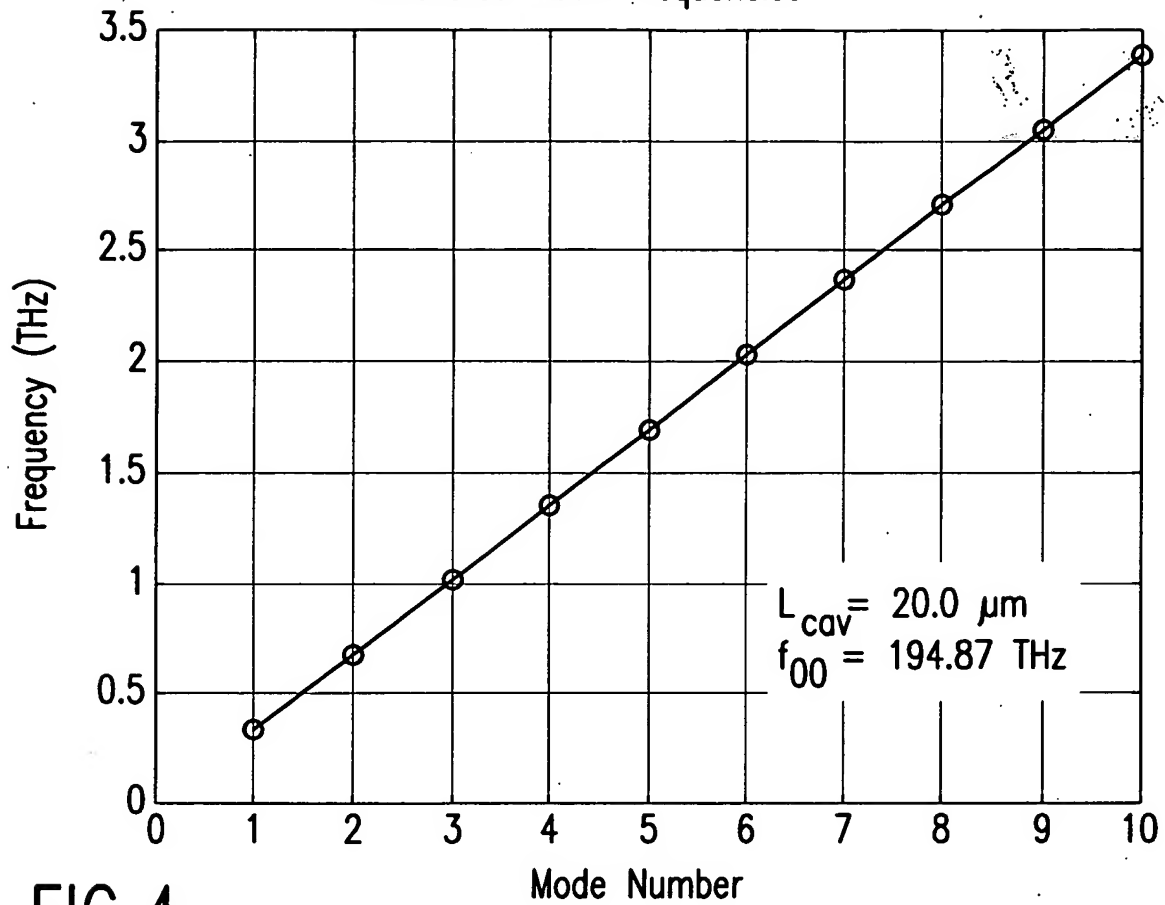


FIG.4

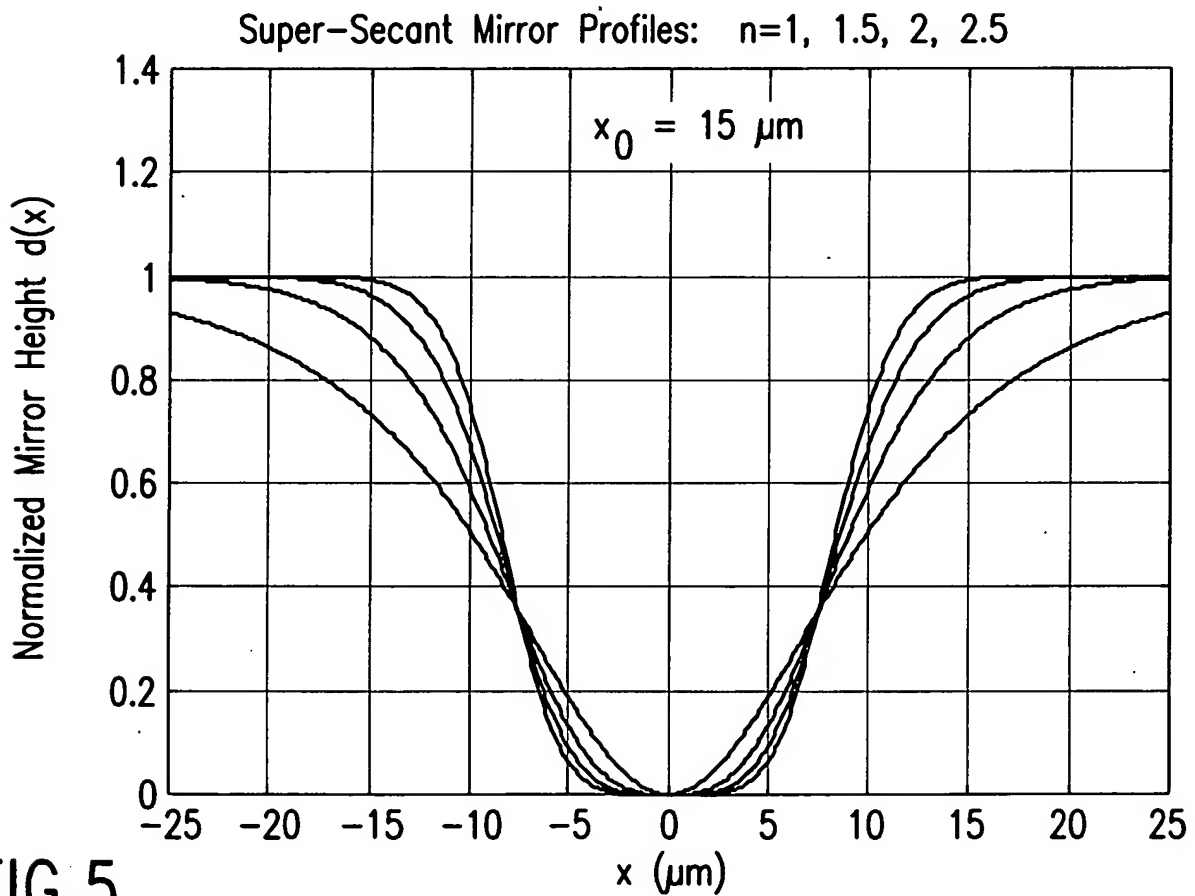


FIG.5

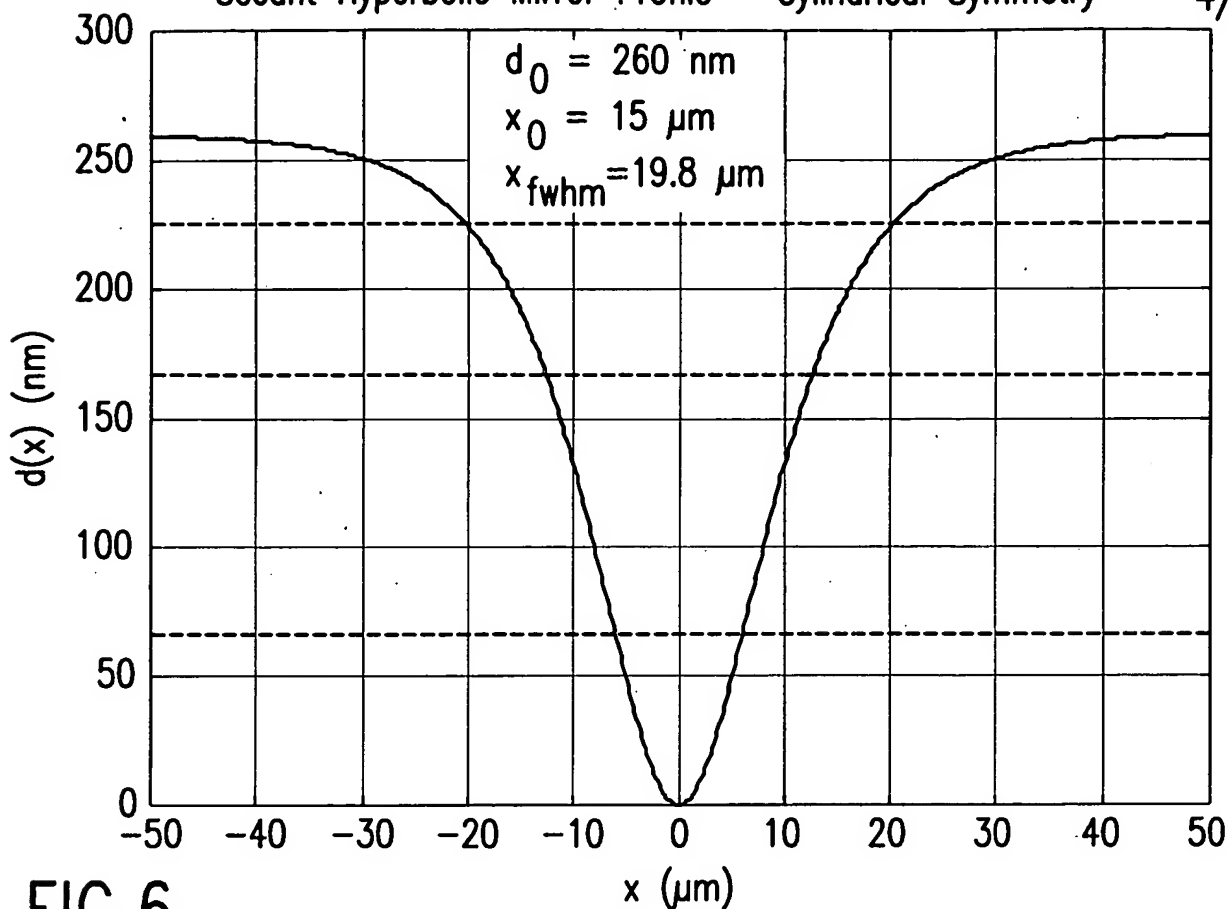


FIG. 6

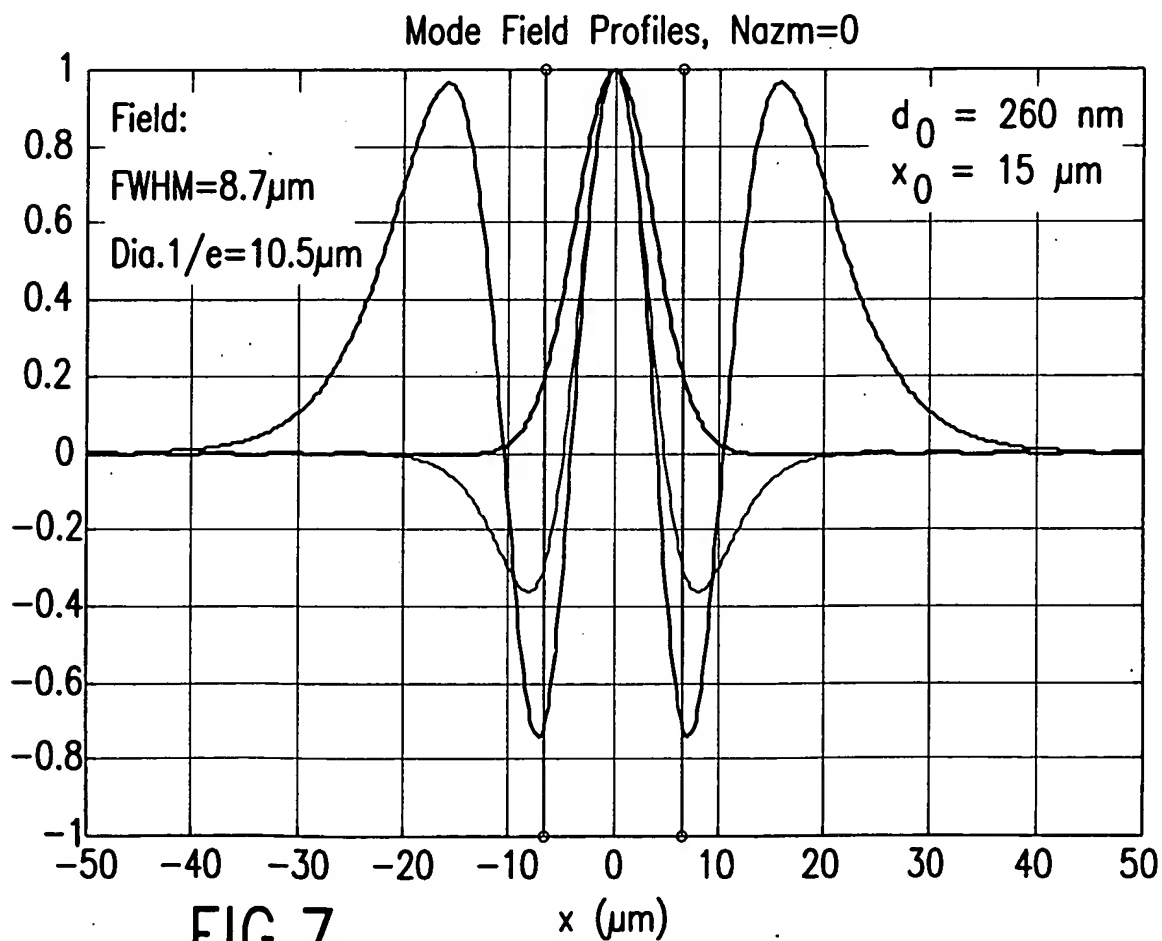
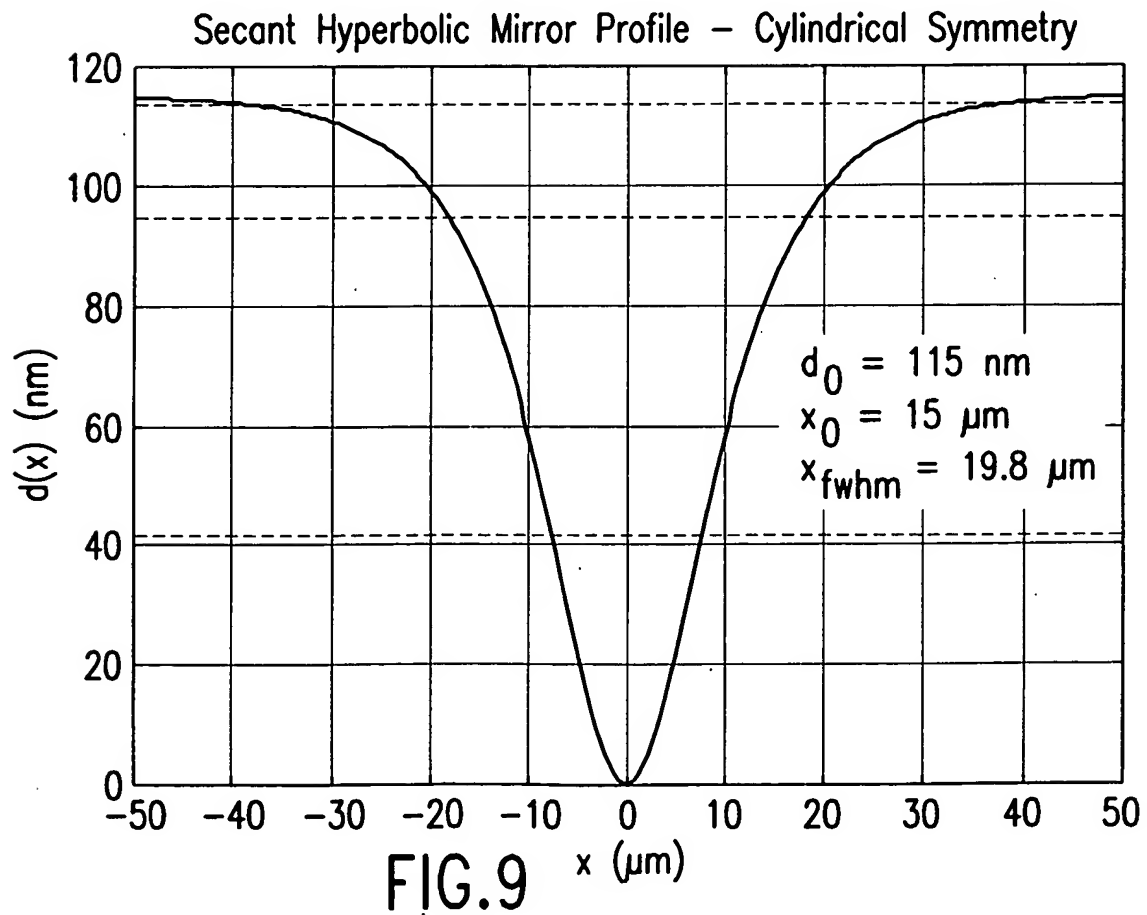
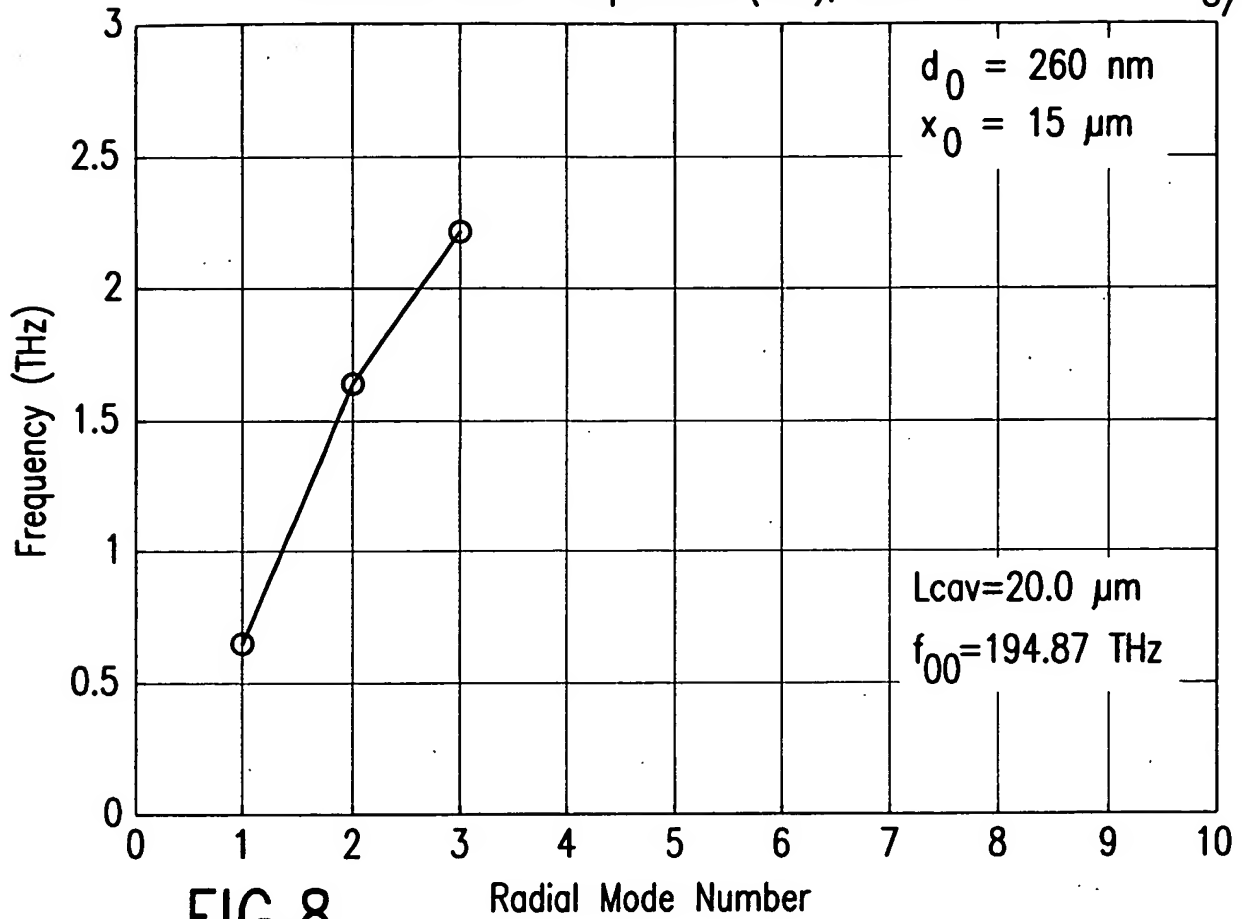


FIG. 7



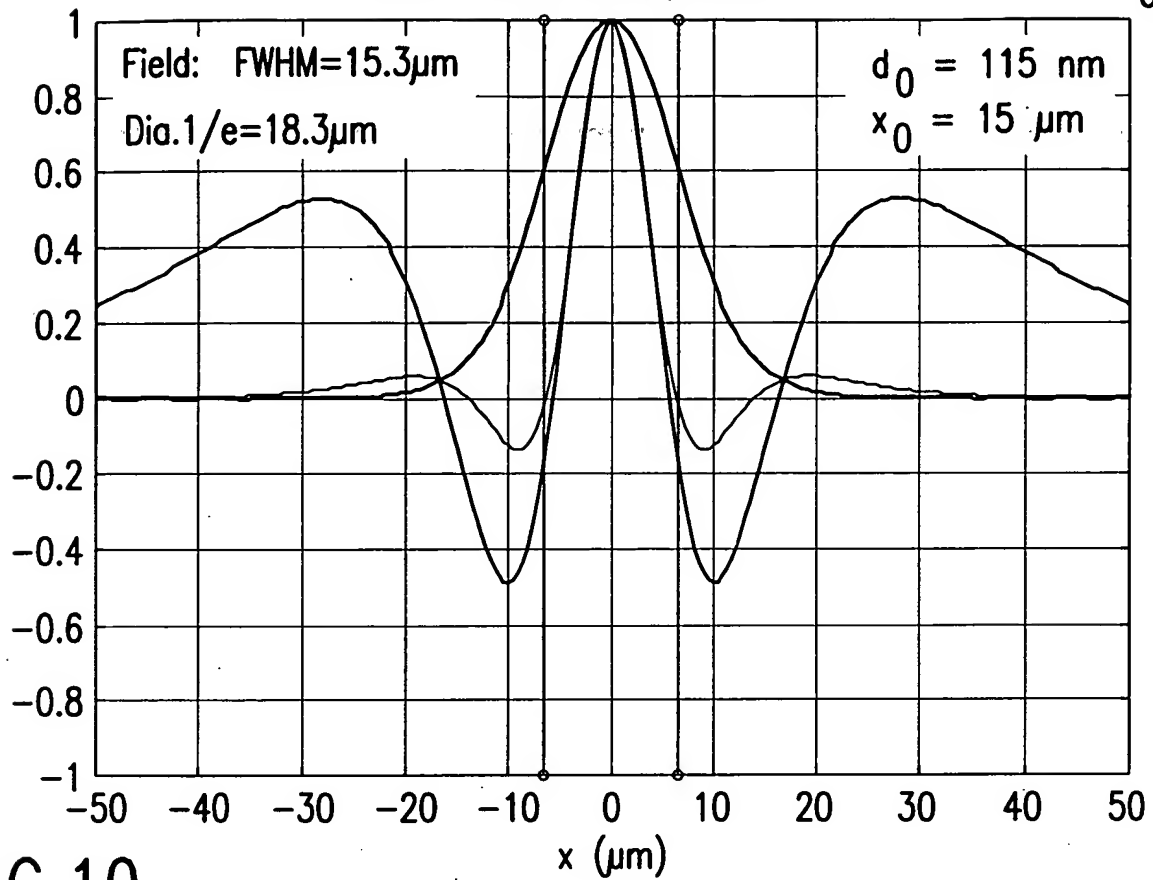


FIG.10

Transverse Mode Frequencies (THz); Nazm=0

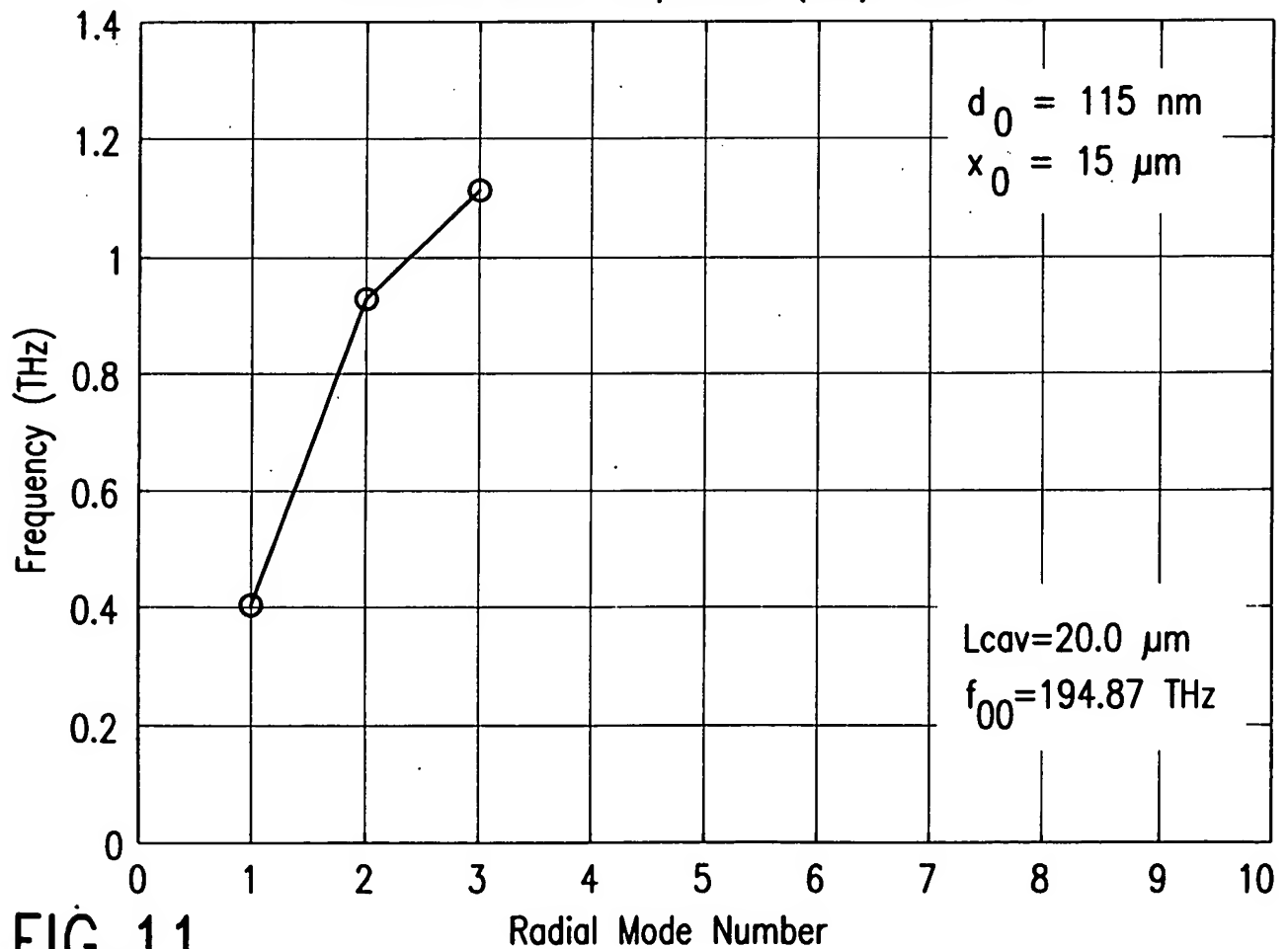
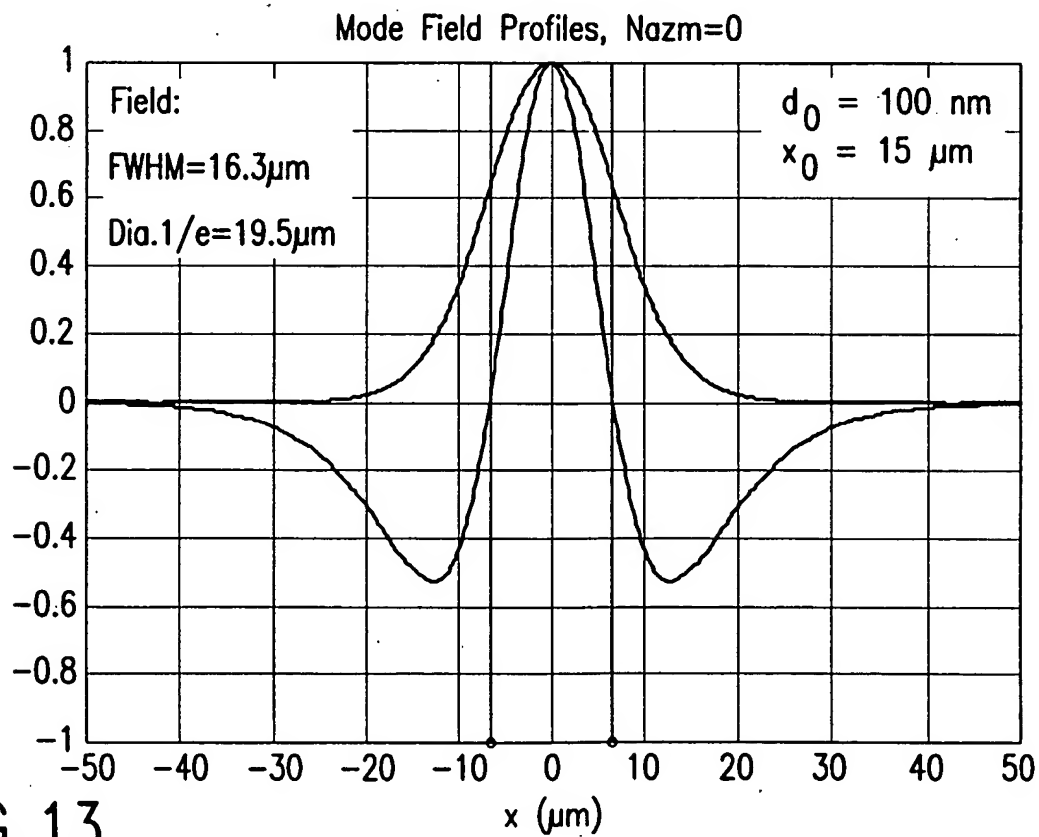
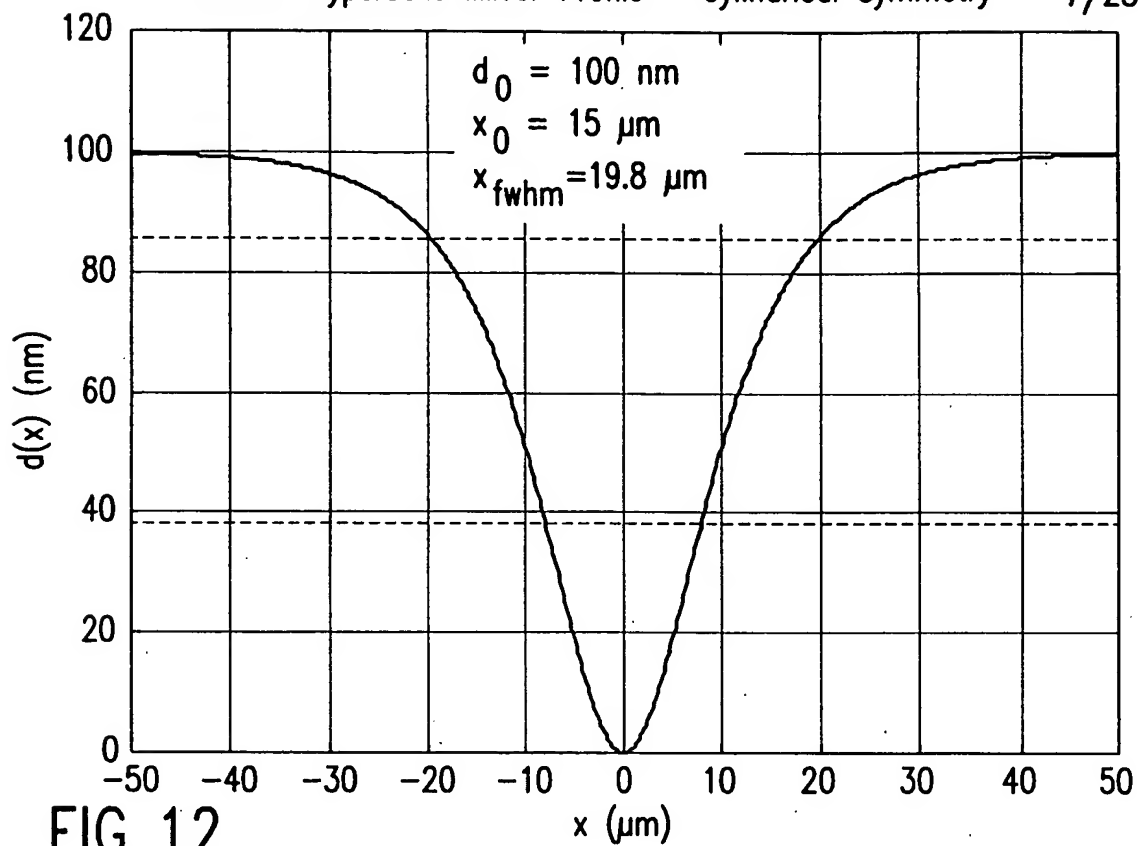


FIG.11



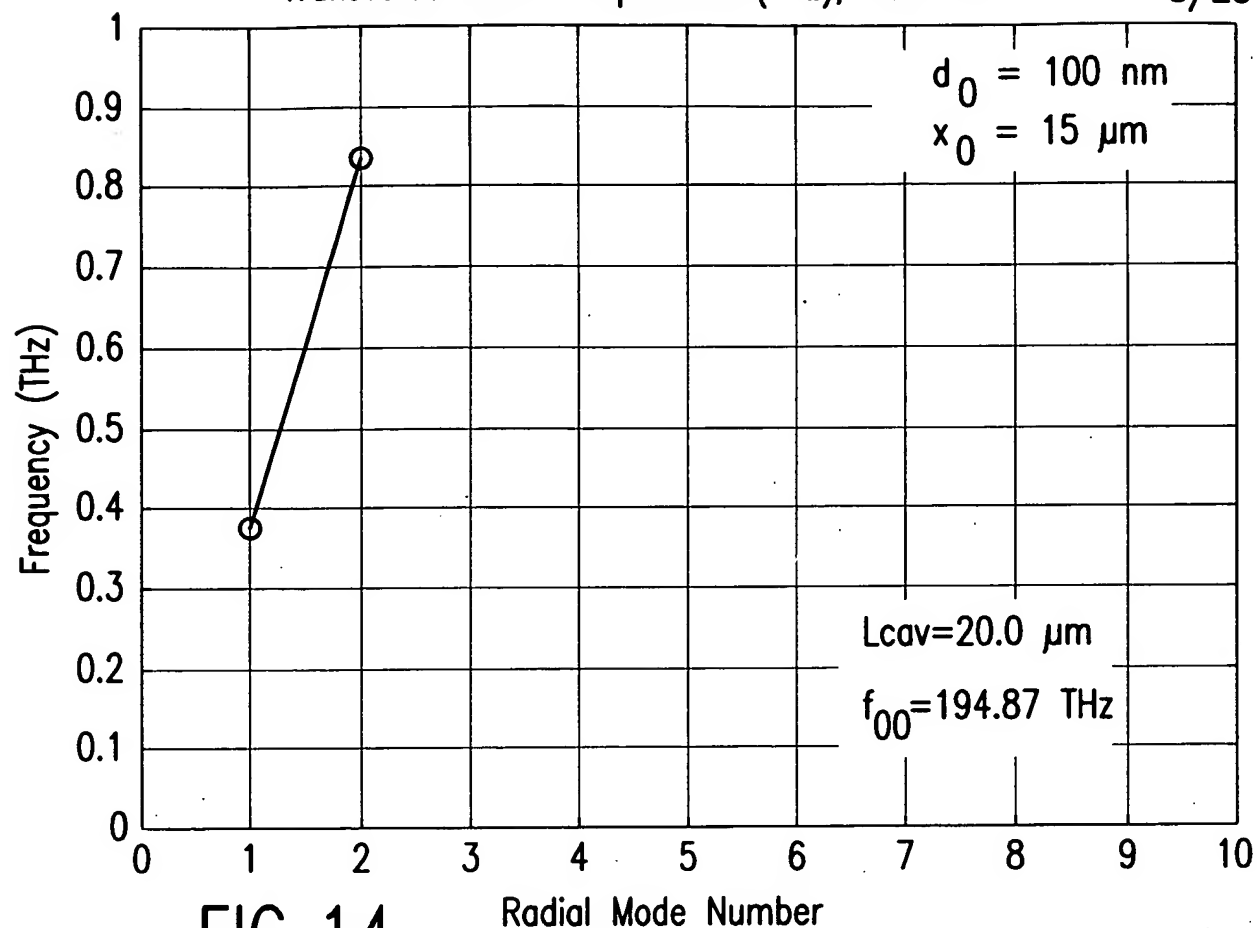


FIG. 14

Secant Hyperbolic Mirror Profile – Cylindrical Symmetry

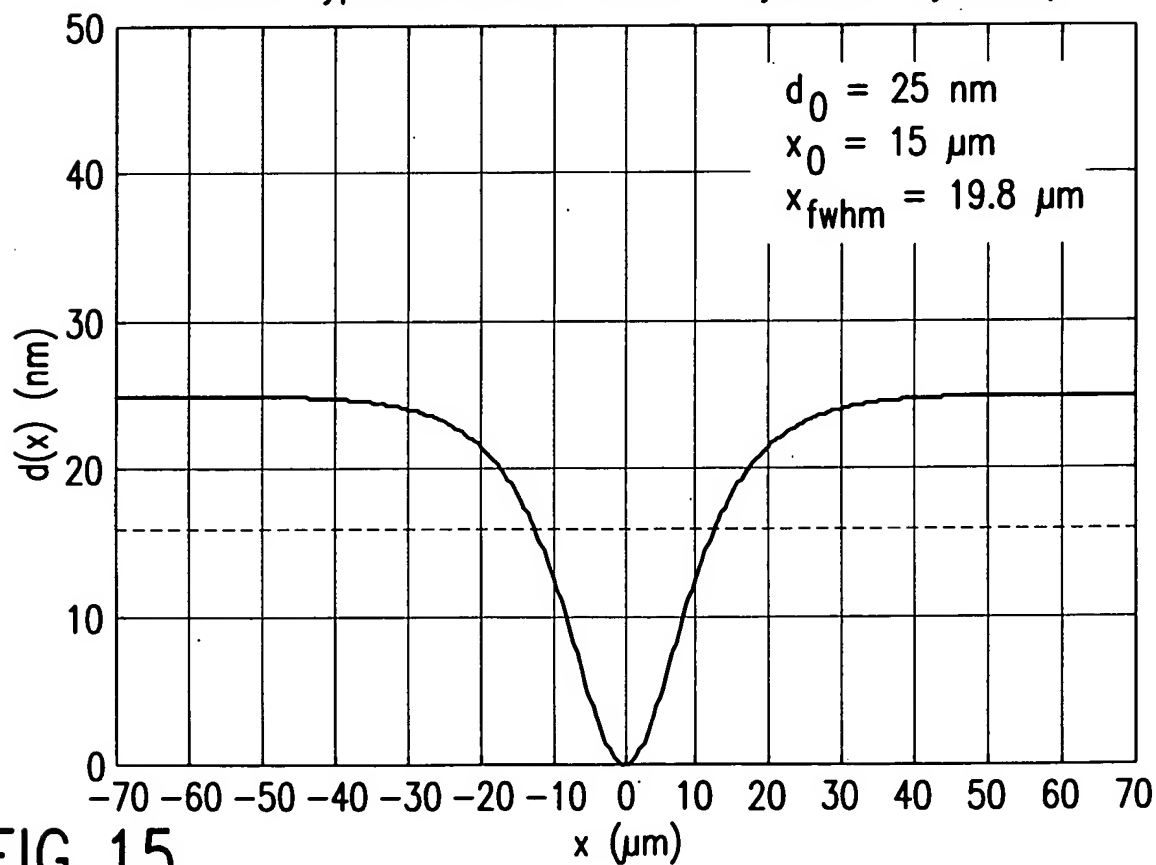


FIG. 15

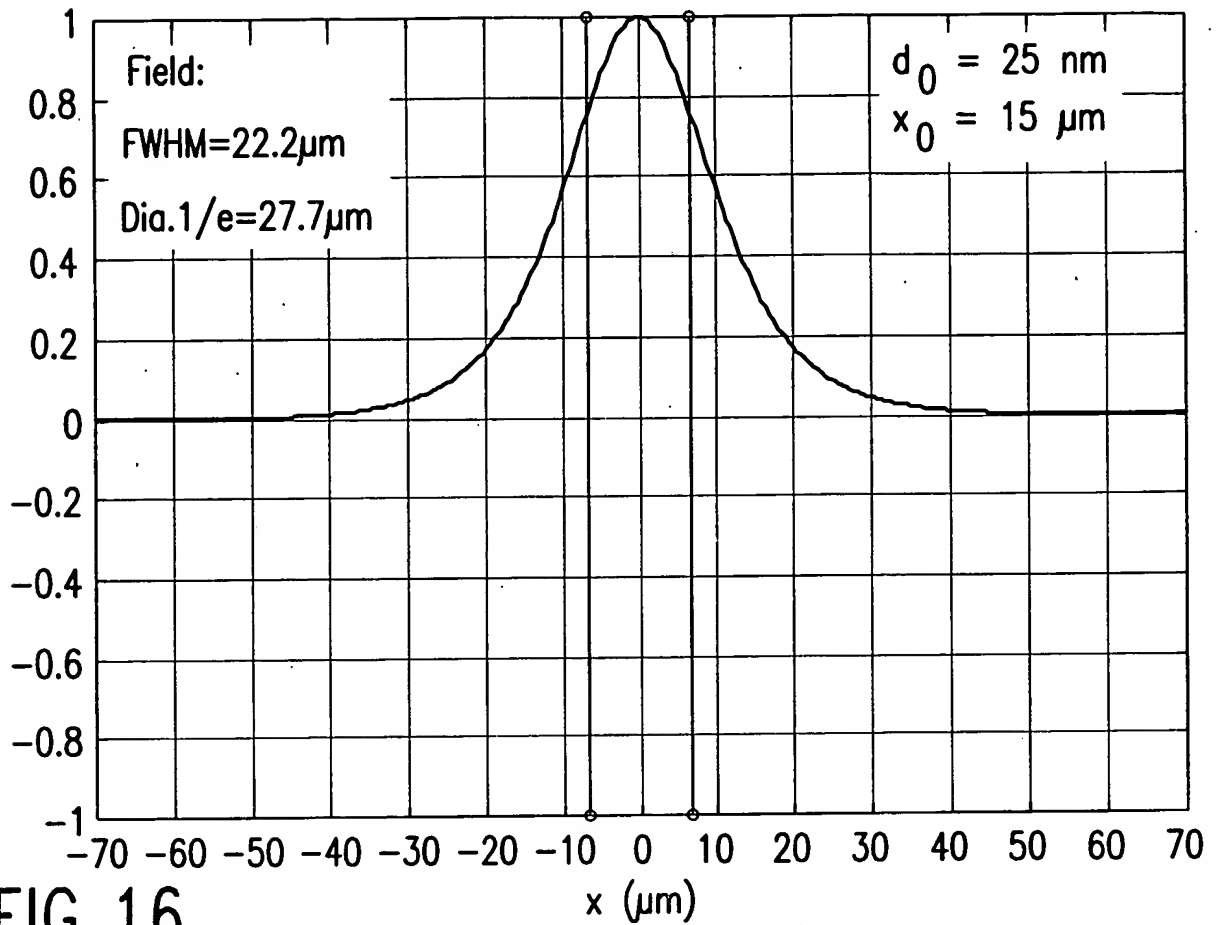


FIG. 16

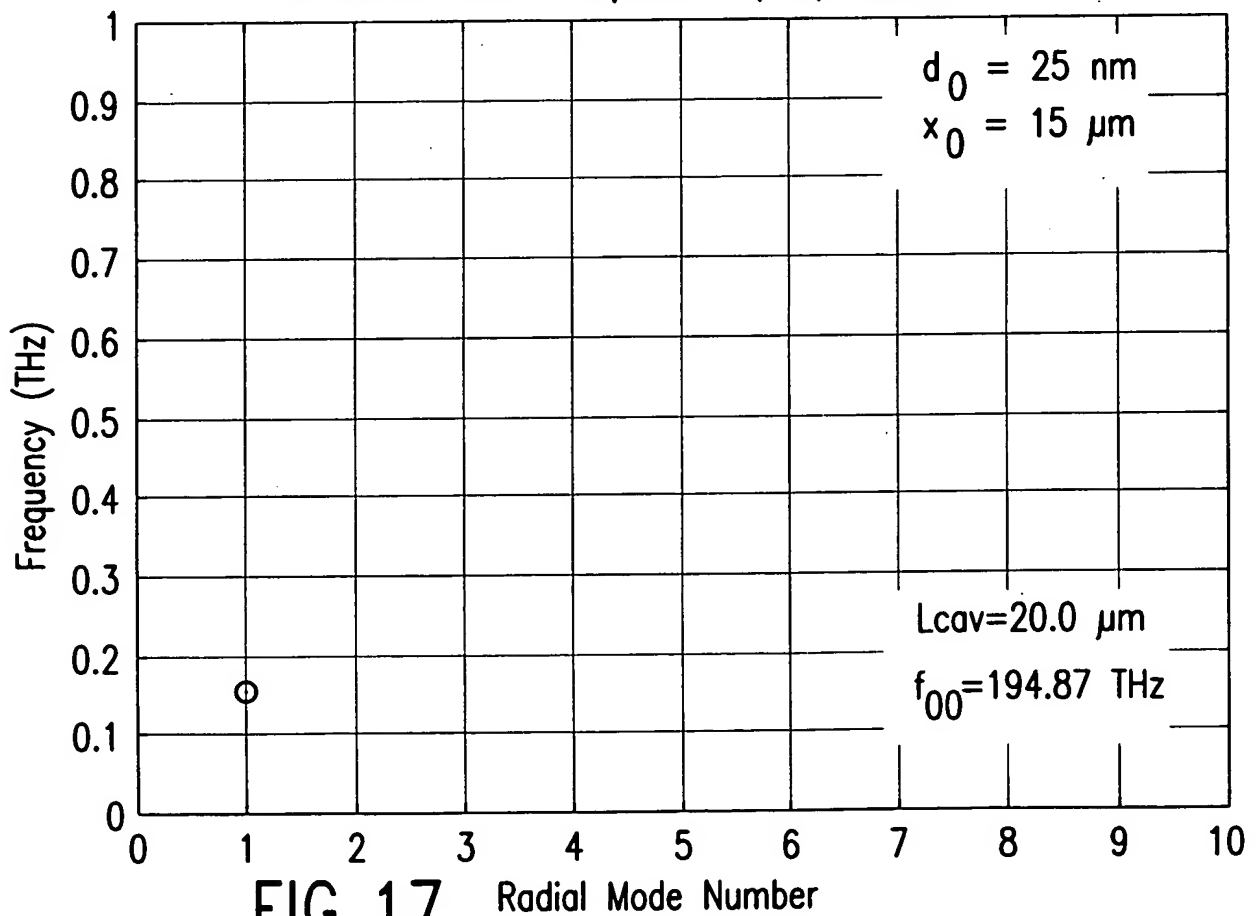
Transverse Mode Frequencies (THz); $N_{azm}=0$ 

FIG. 17

Radial Mode Number

200

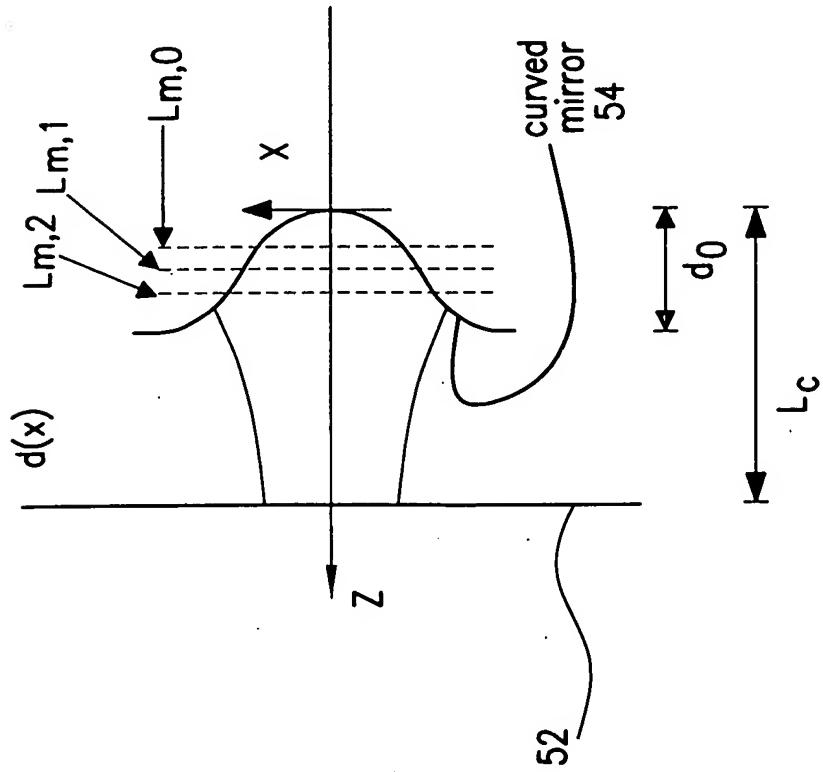


FIG. 18

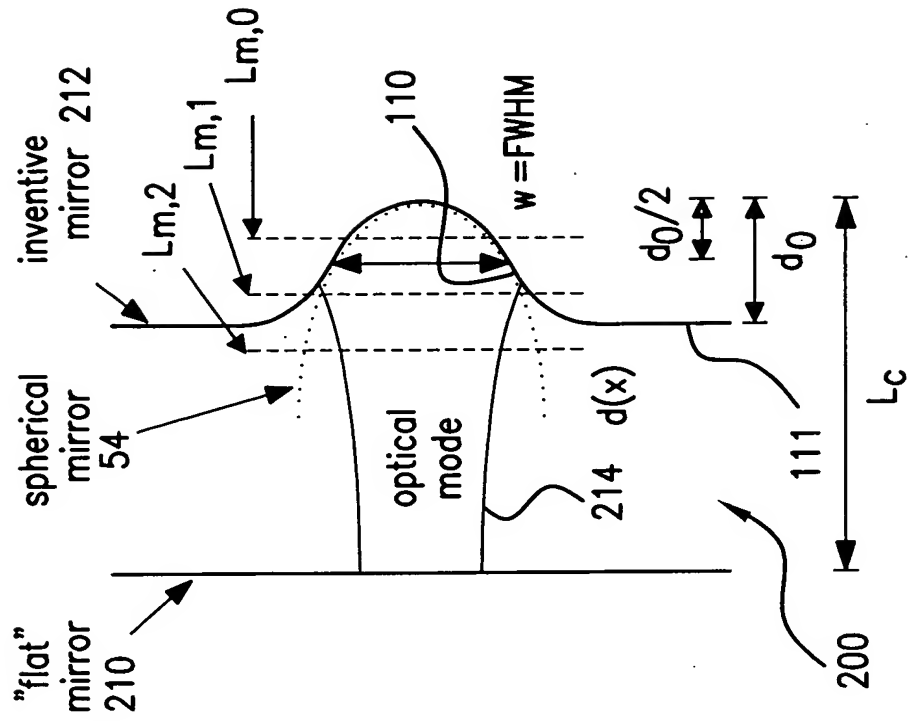


FIG. 19

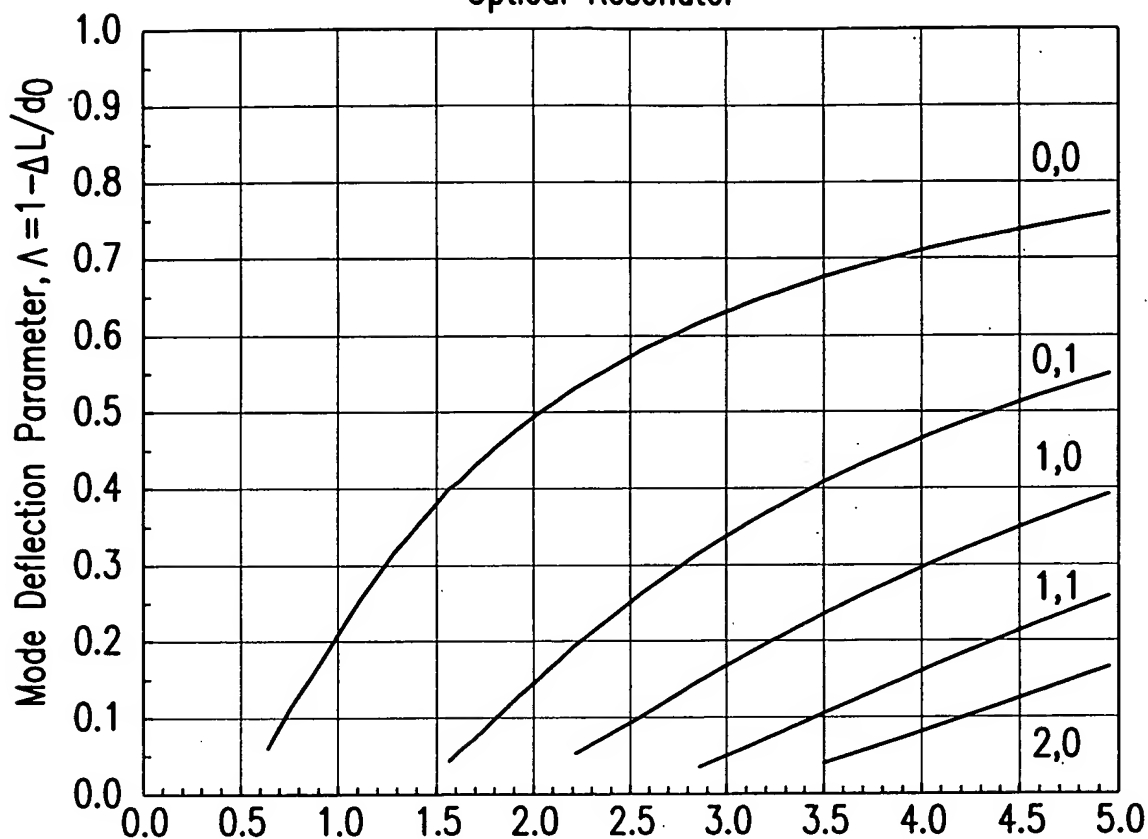


FIG. 20

Cavity V parameter, $V_r = (\pi w/\lambda) \sqrt{d_0/L_c}$

Transverse Modes - Secant Hyperbolic Mirror Resonator

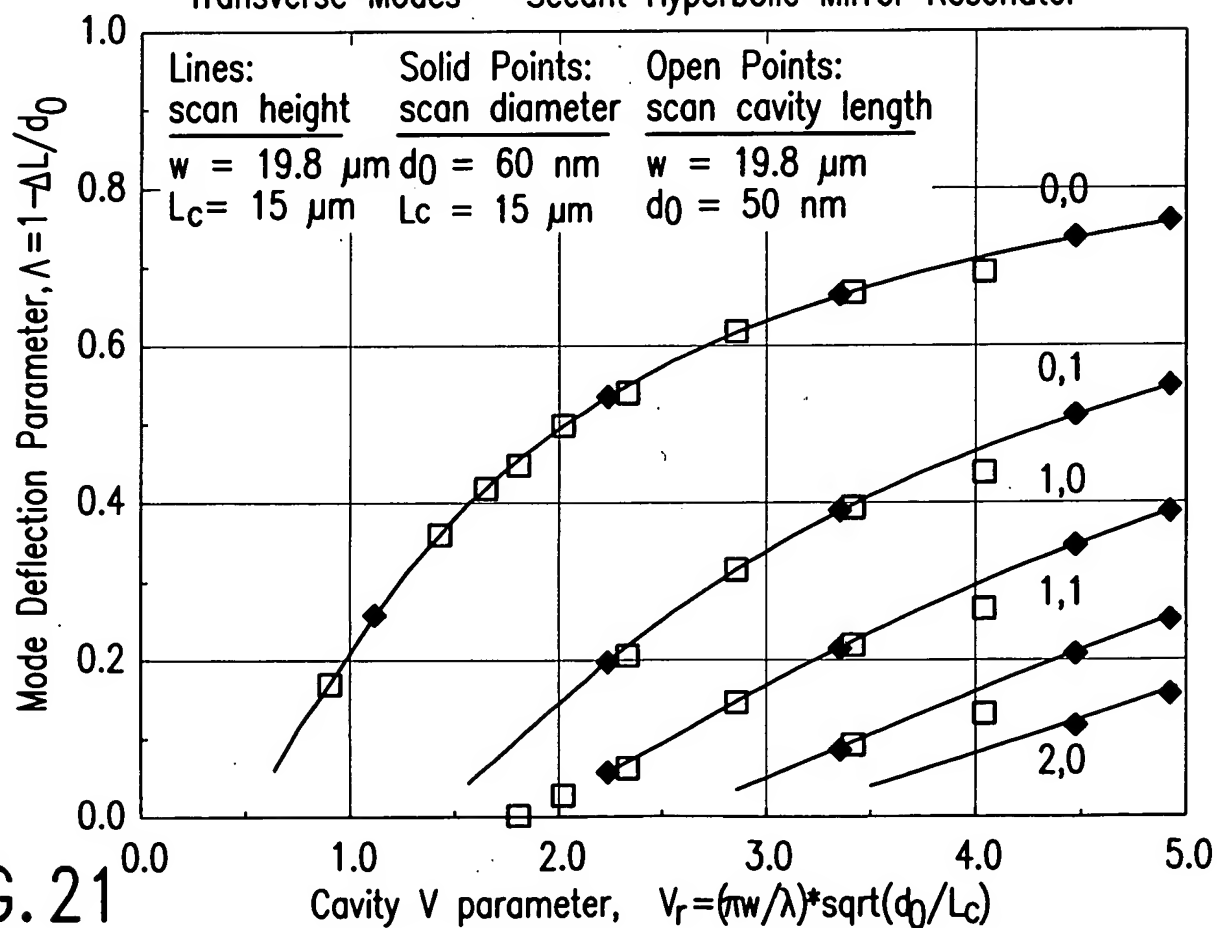


FIG. 21

Cavity V parameter, $V_r = (\pi w/\lambda) \sqrt{d_0/L_c}$

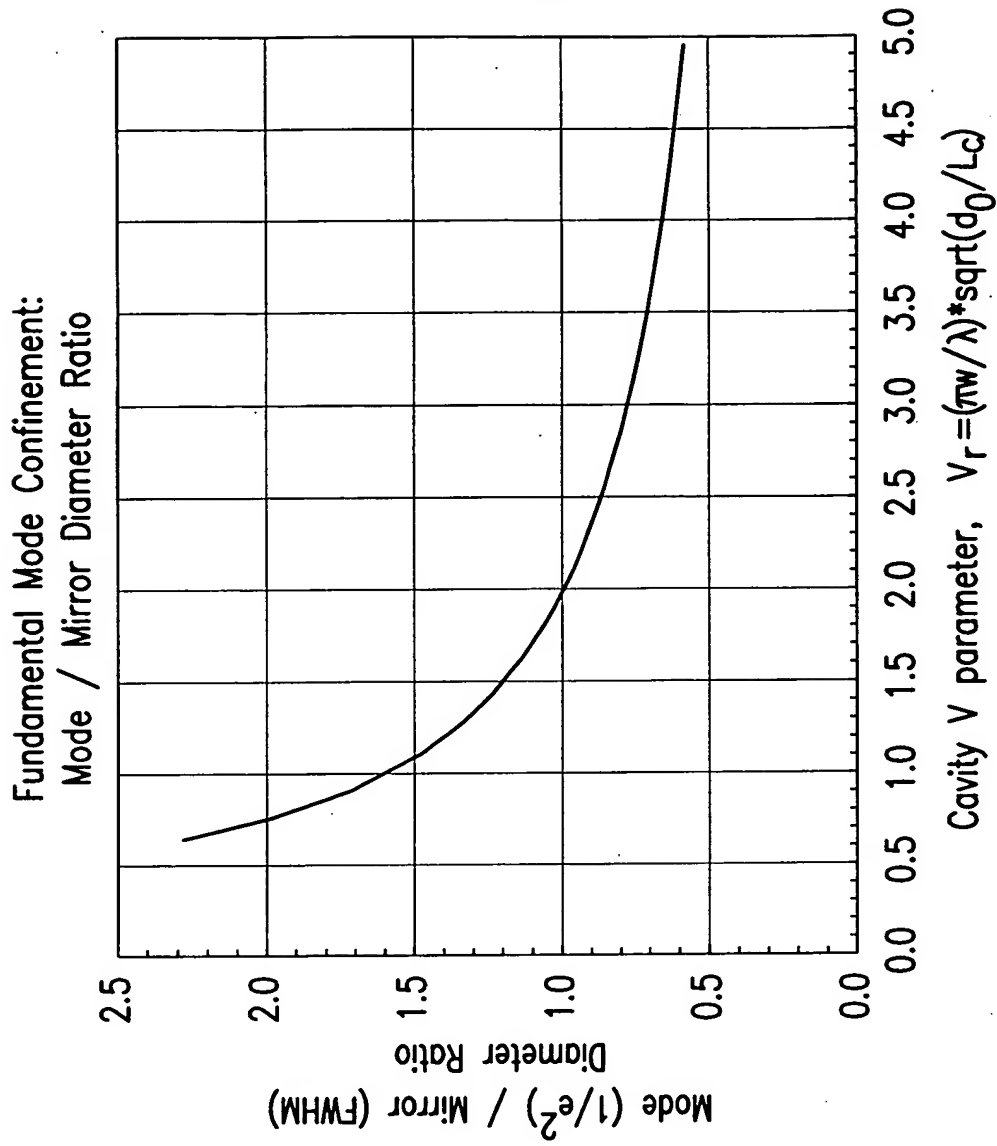


FIG. 23

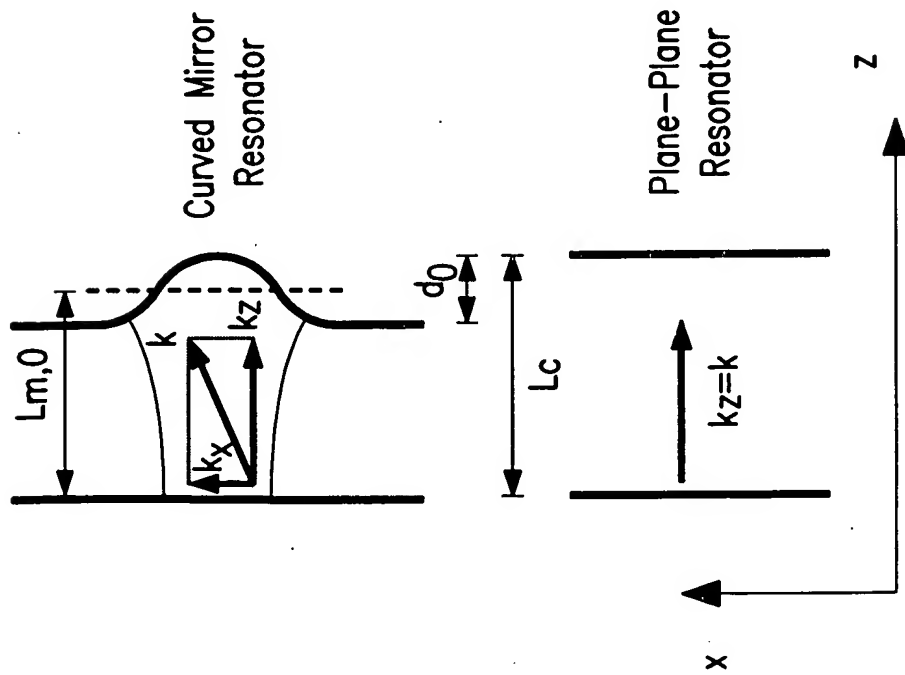


FIG. 22

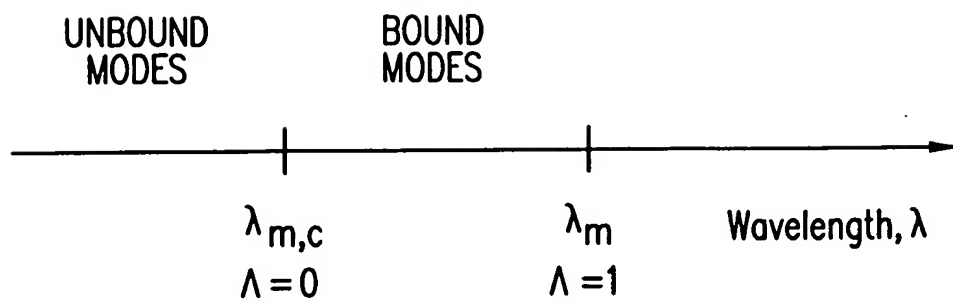


FIG. 24

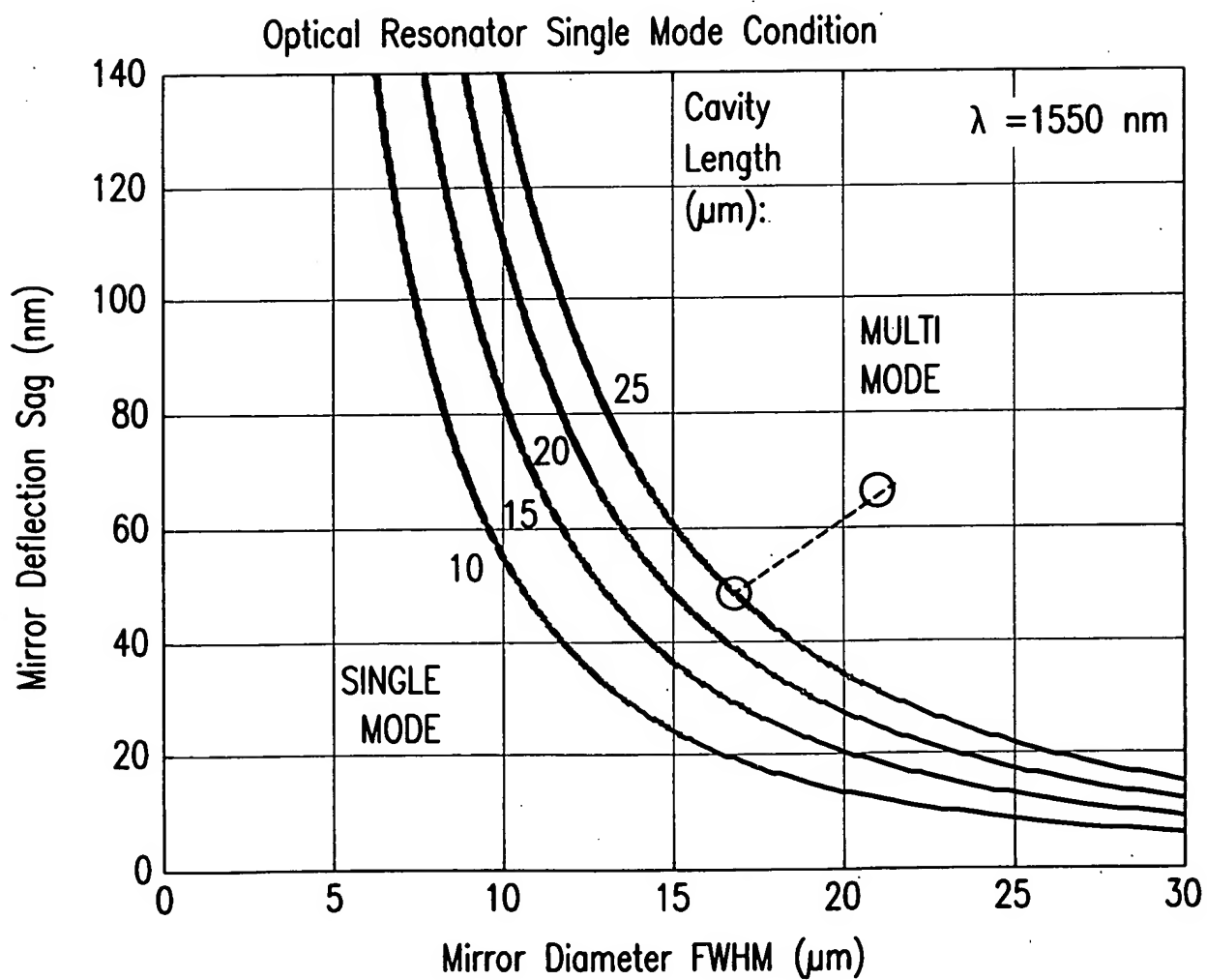


FIG. 25

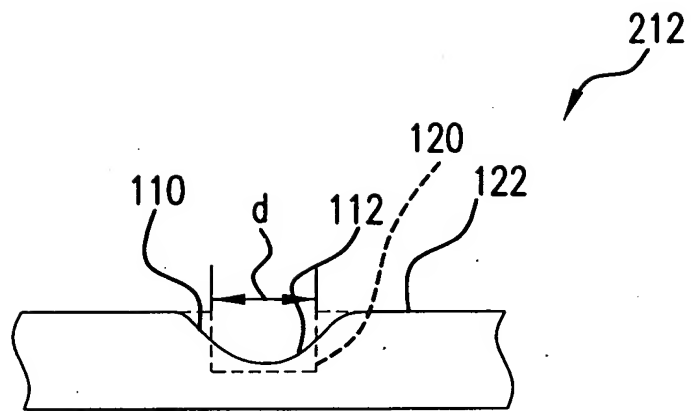


FIG. 26

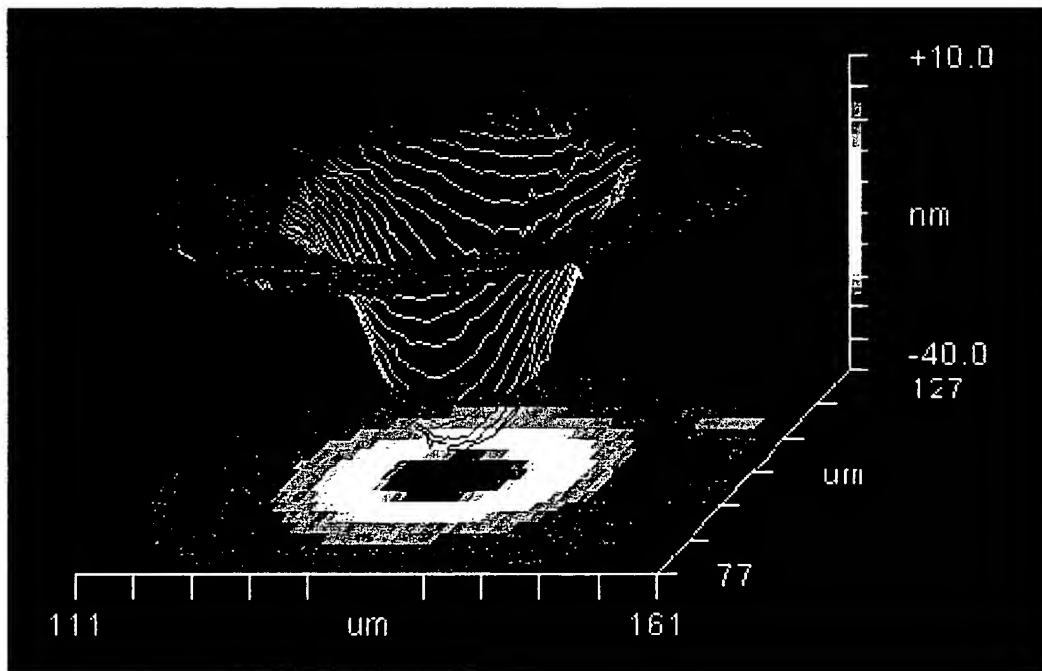


FIG.27A

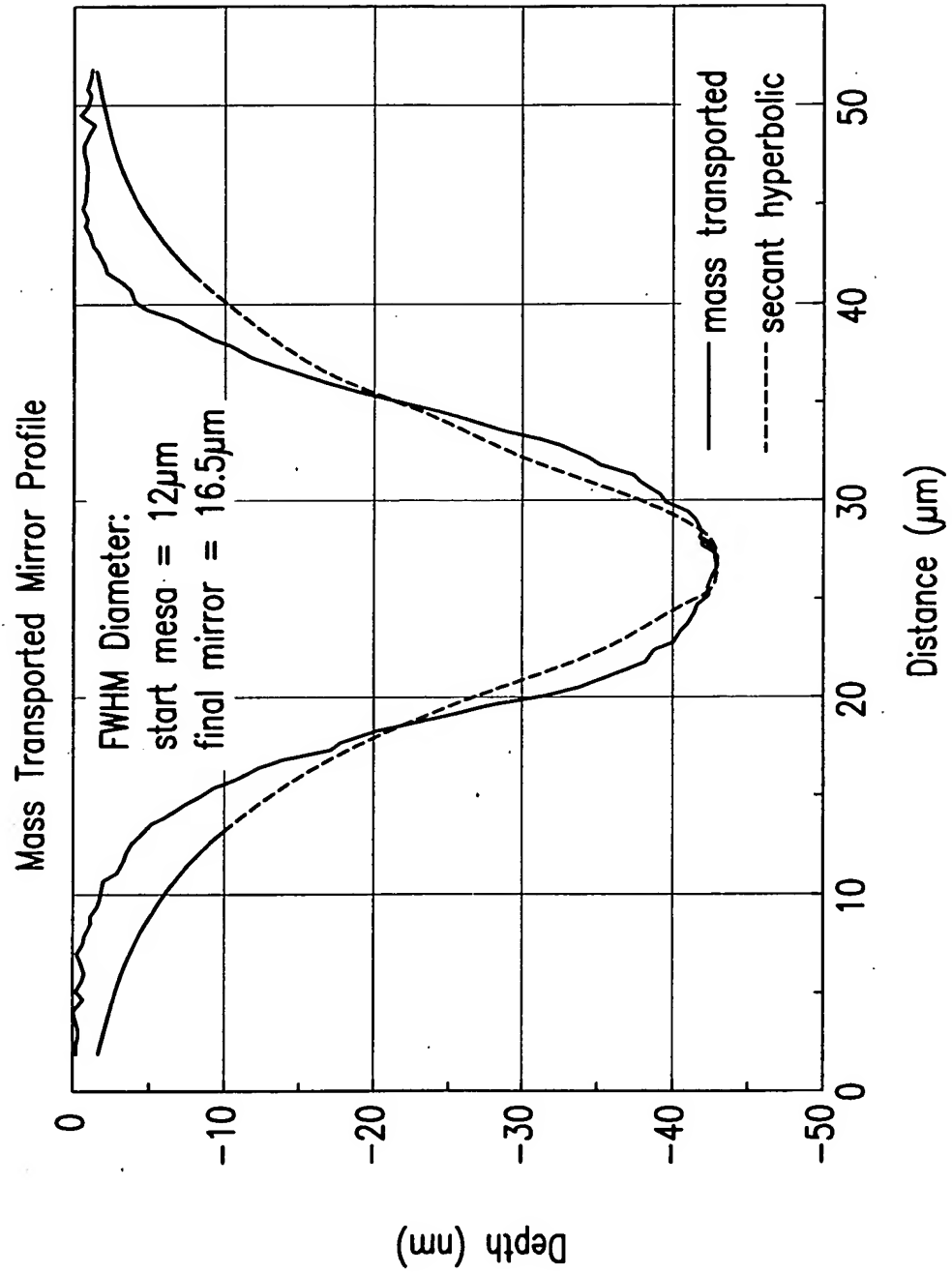


FIG. 27B

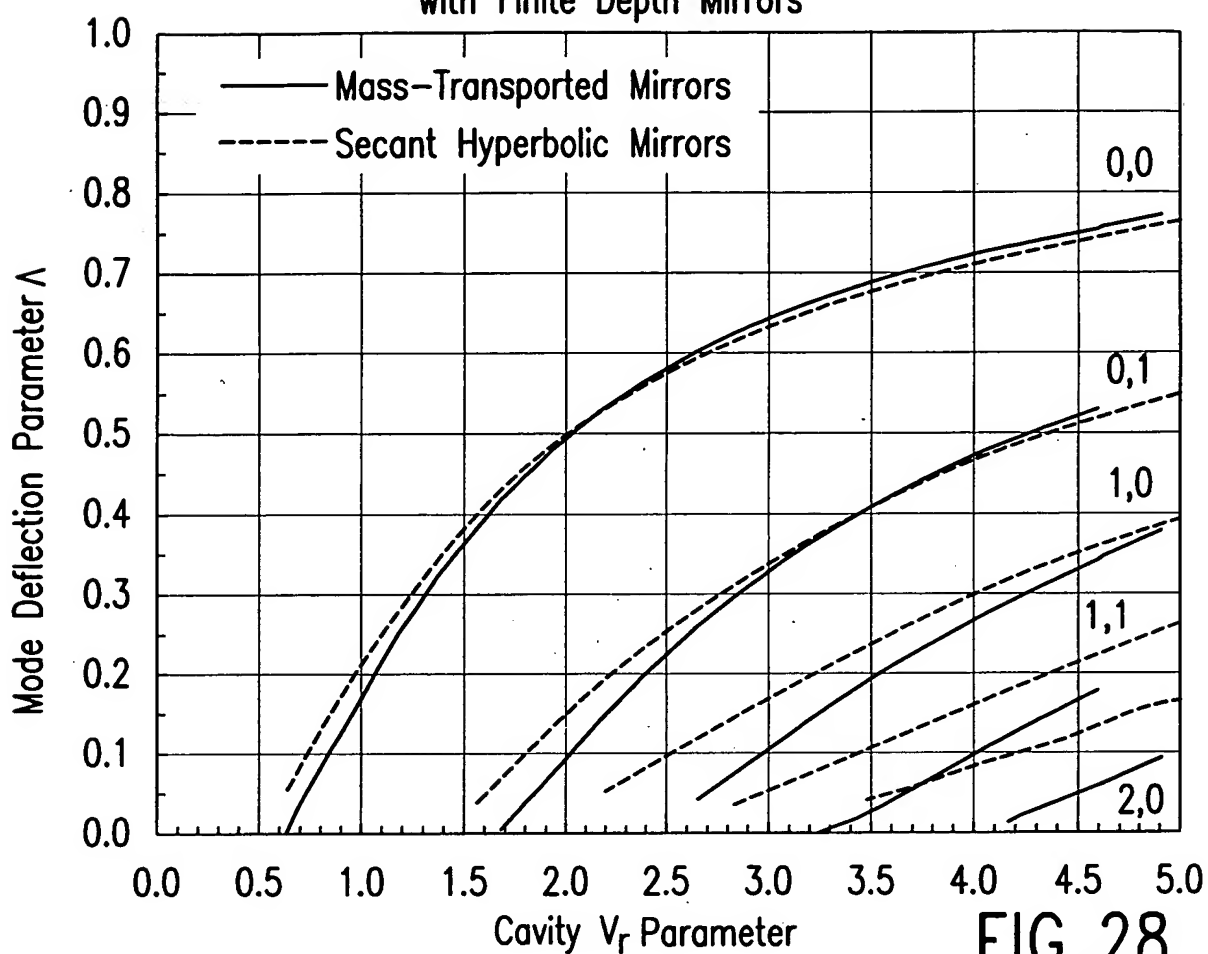


FIG. 28

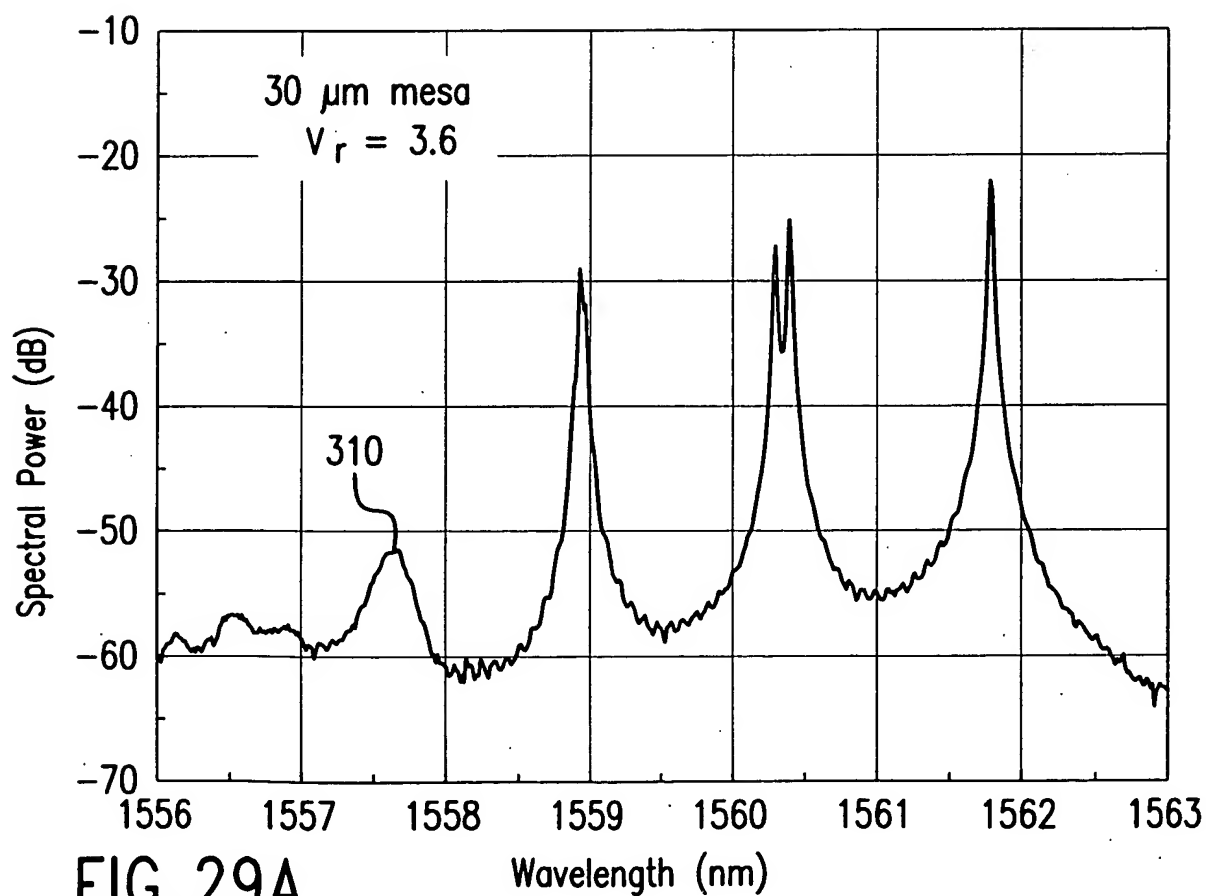


FIG. 29A

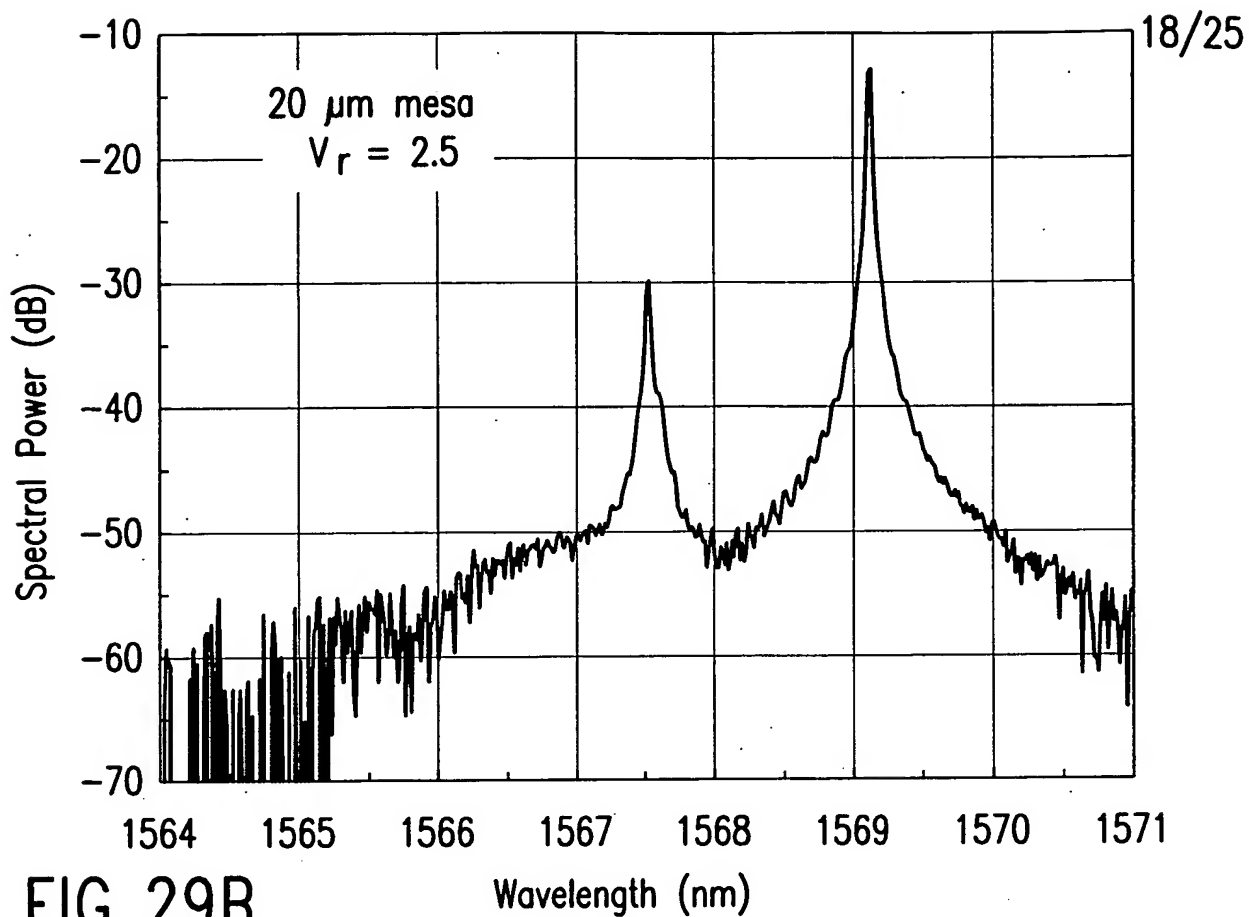


FIG. 29B

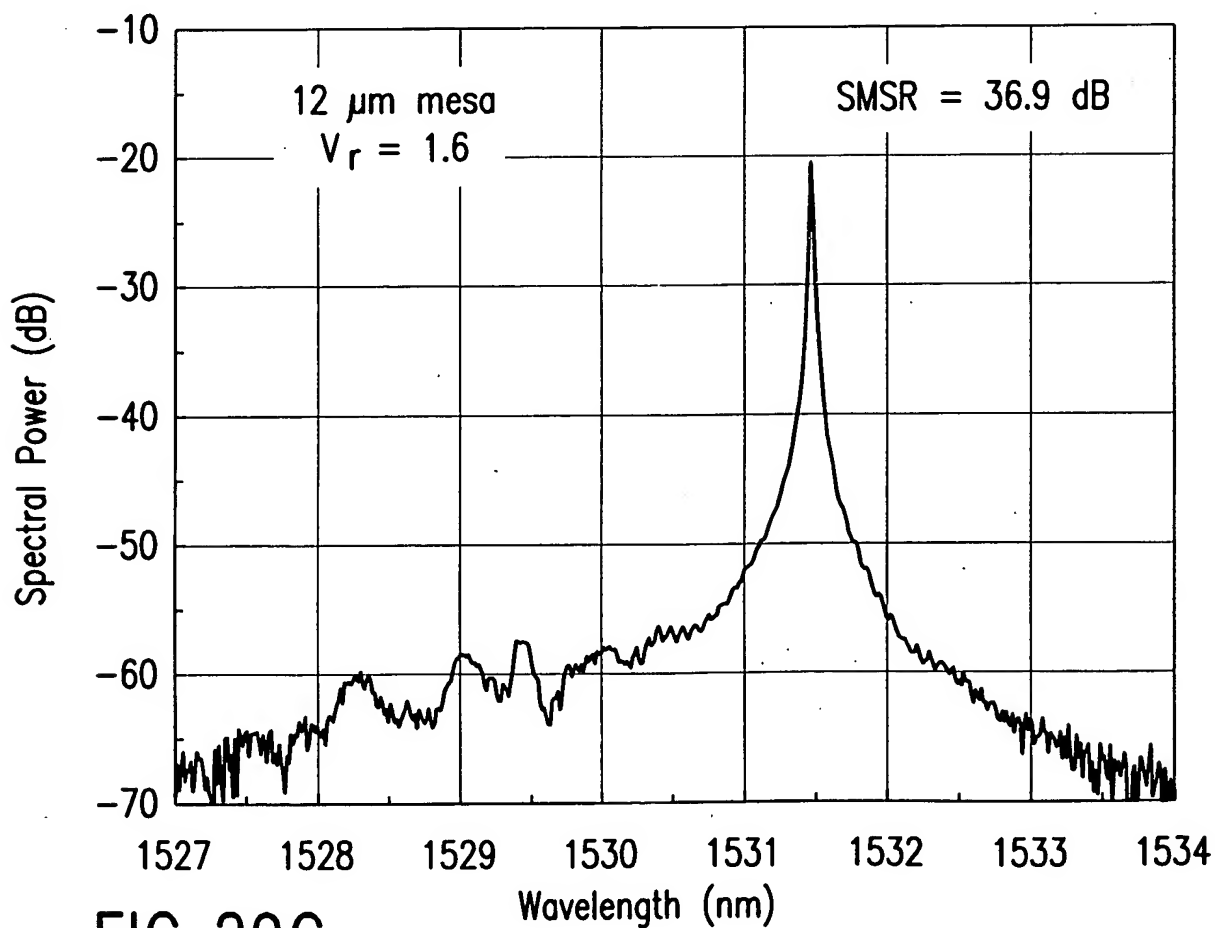


FIG. 29C

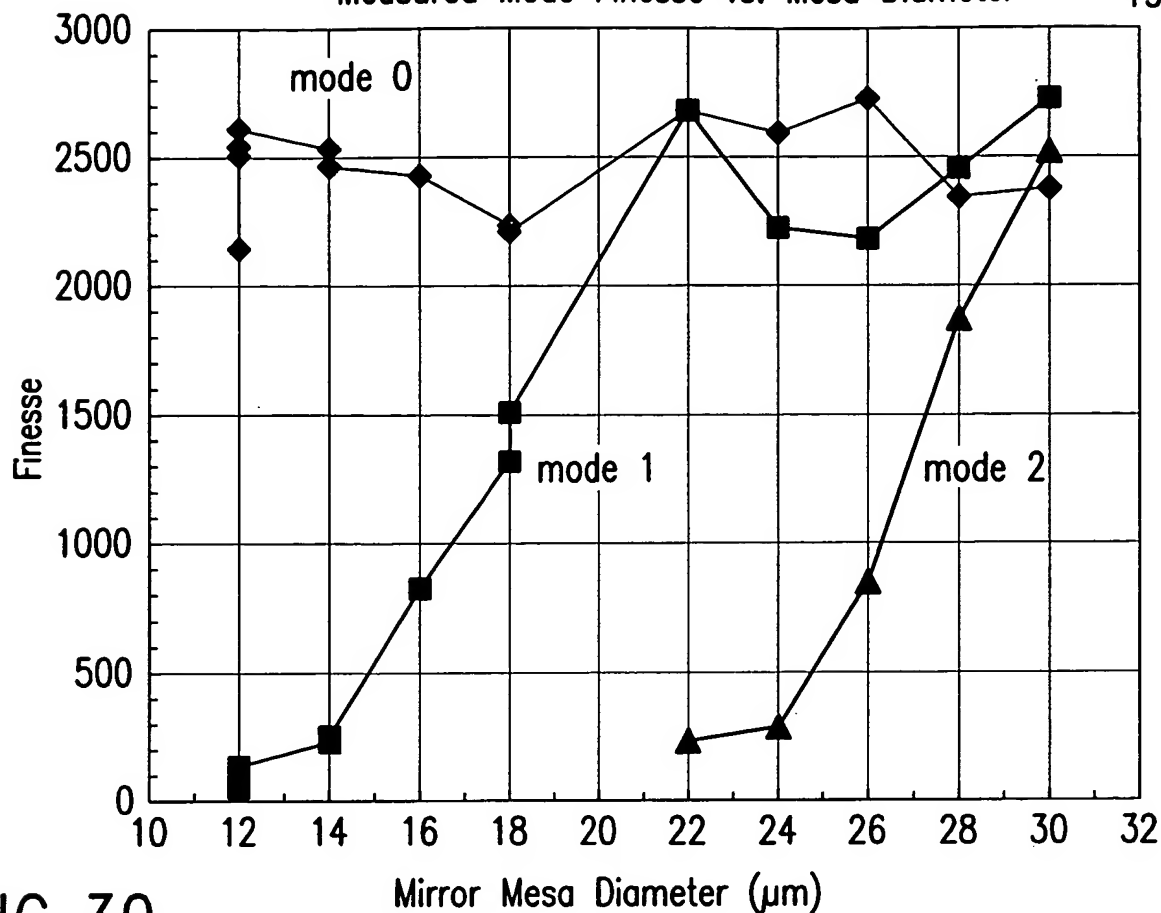


FIG. 30

Measured Filter Finesse vs. Cavity V_r Parameter

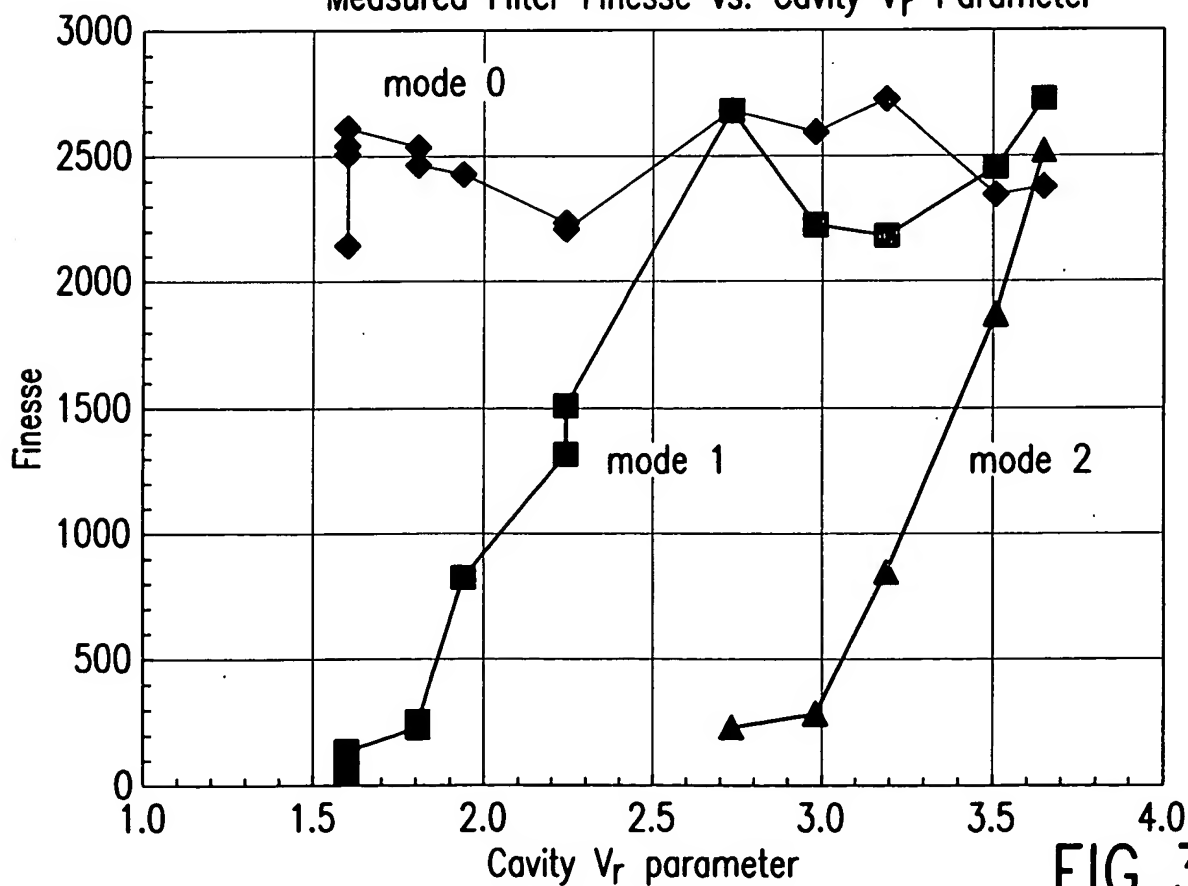


FIG. 31

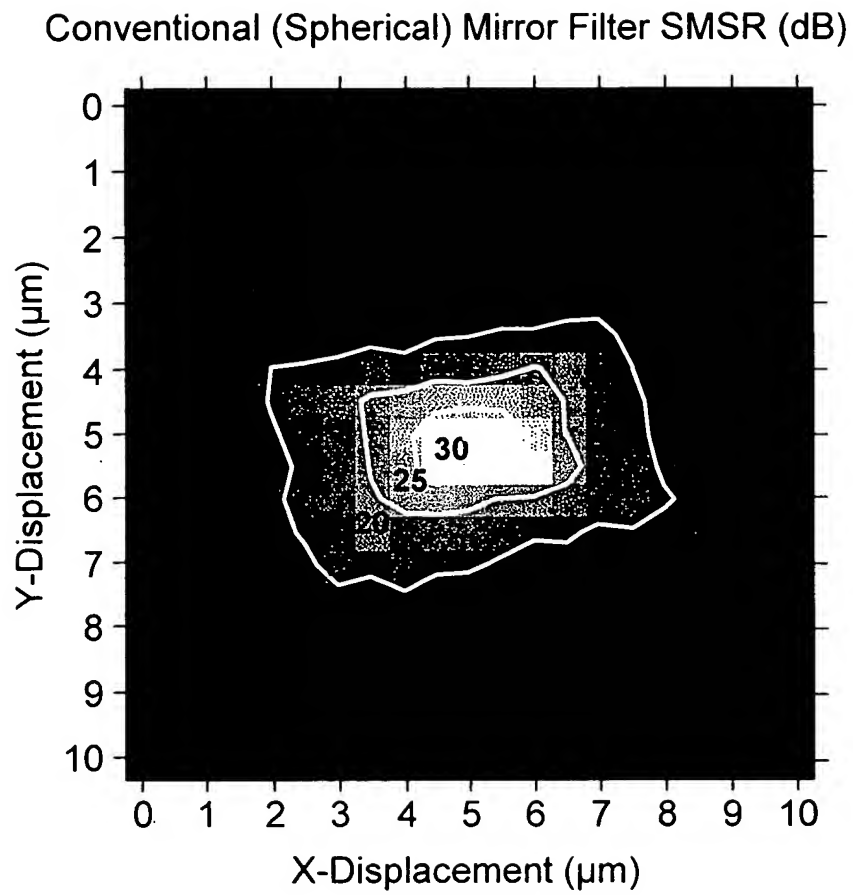


FIG.32A

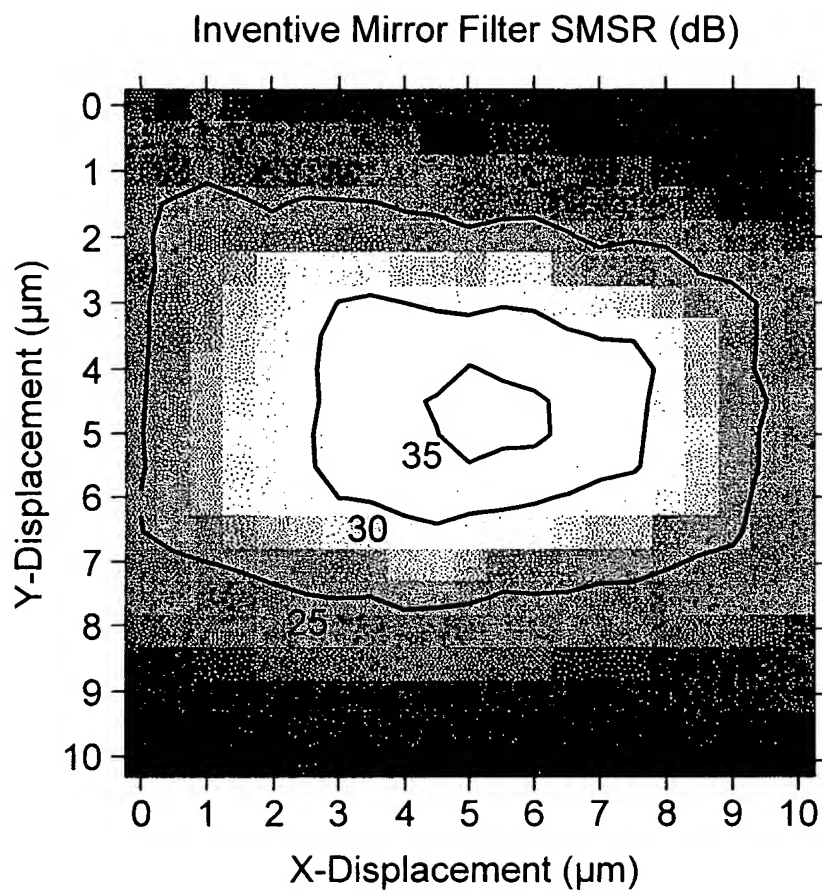


FIG.32B

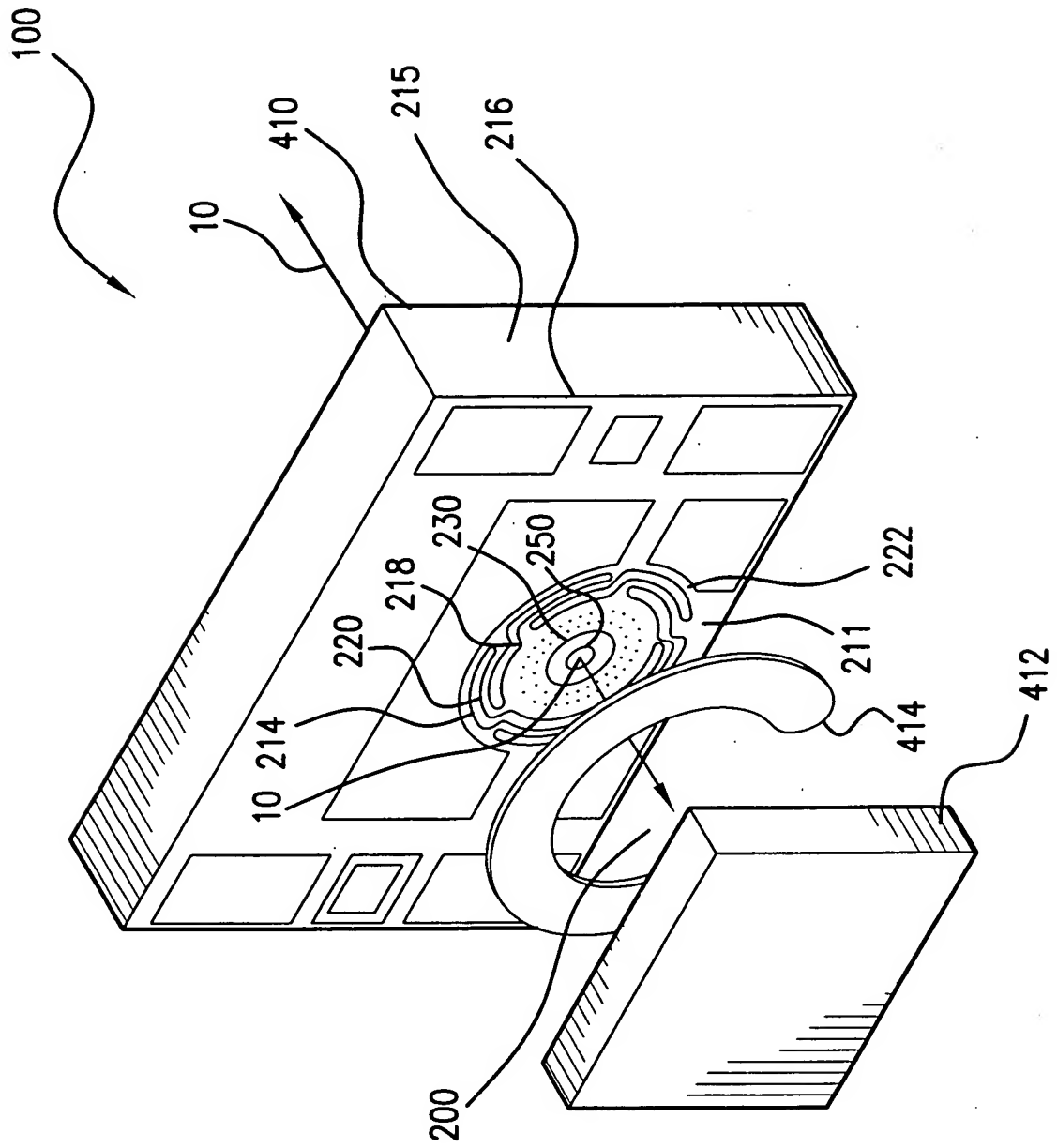


FIG. 33

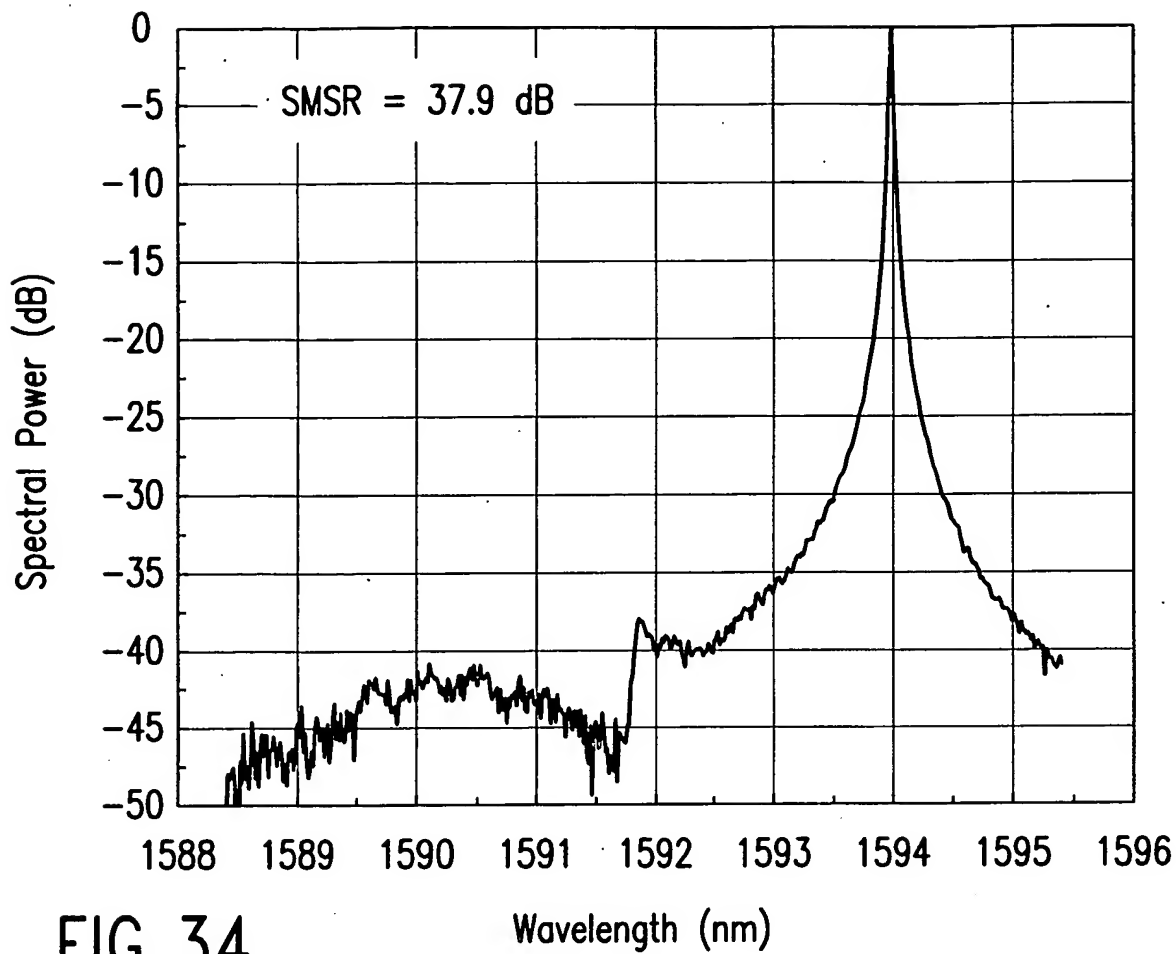


FIG. 34

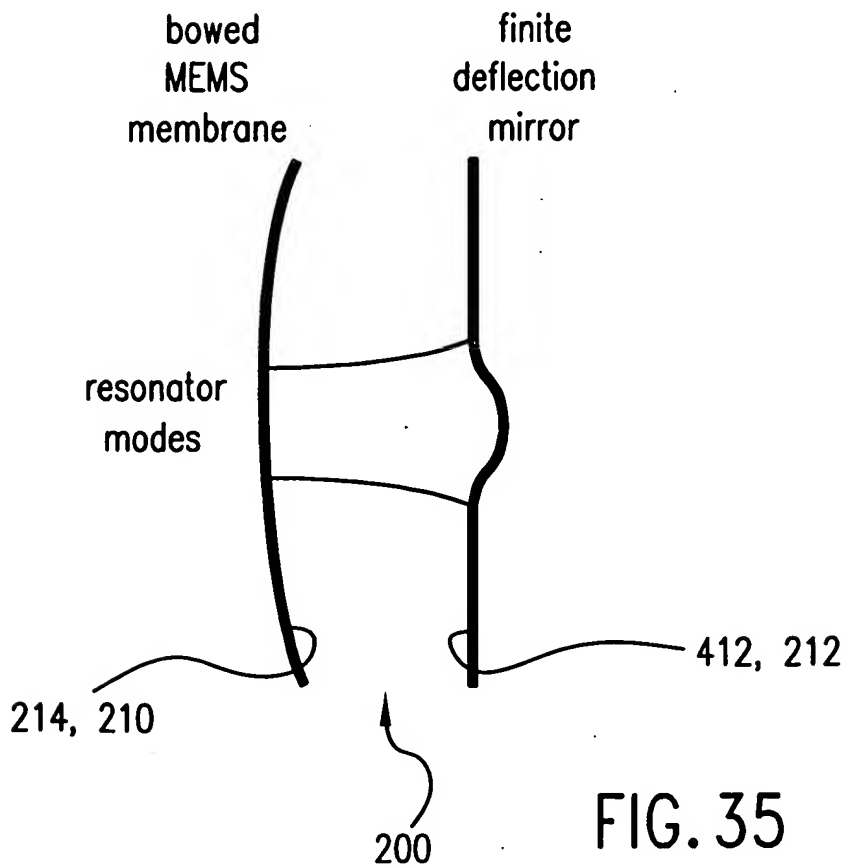


FIG. 35

Net Mirror Profile: Secant Hyperbolic Mirror + Flat Membrane 24/25

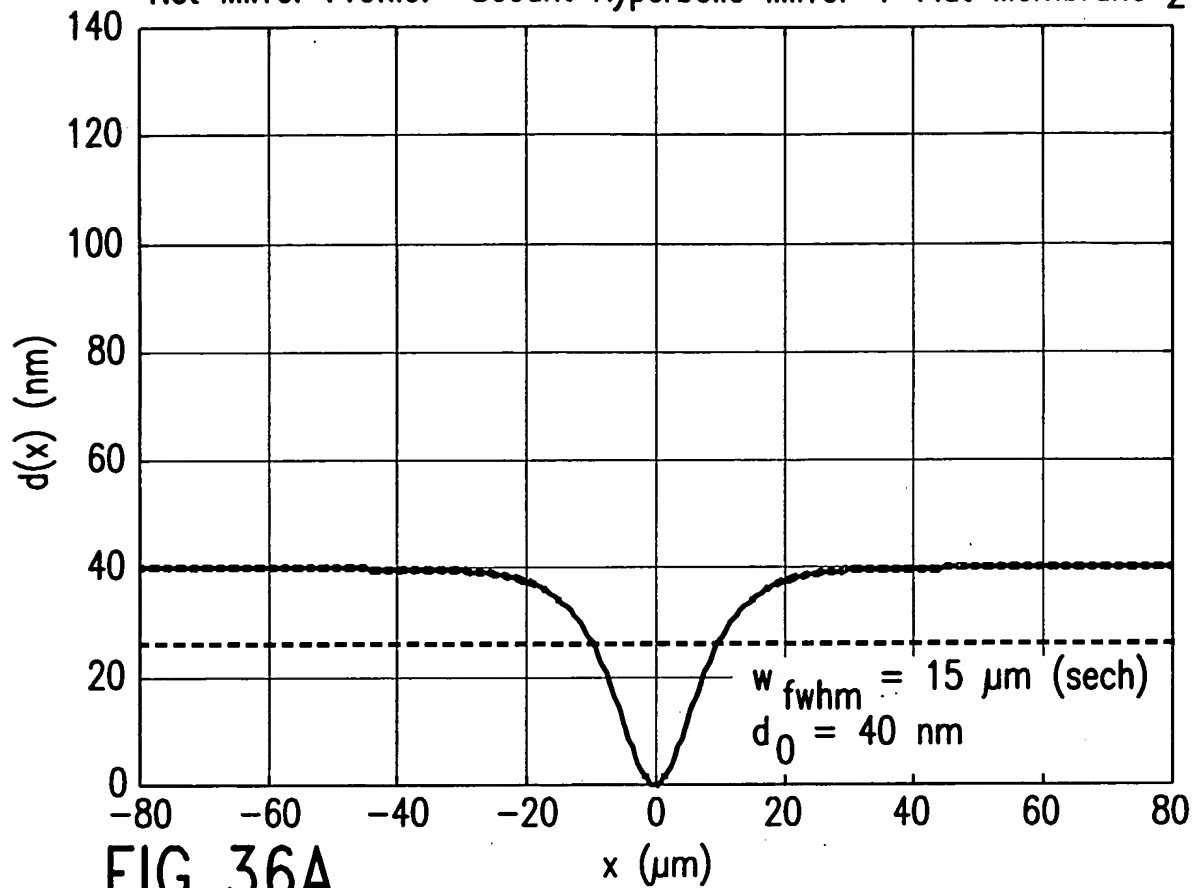


FIG. 36A

Net Mirror Profile: Secant Hyperbolic Mirror + Bowed Membrane

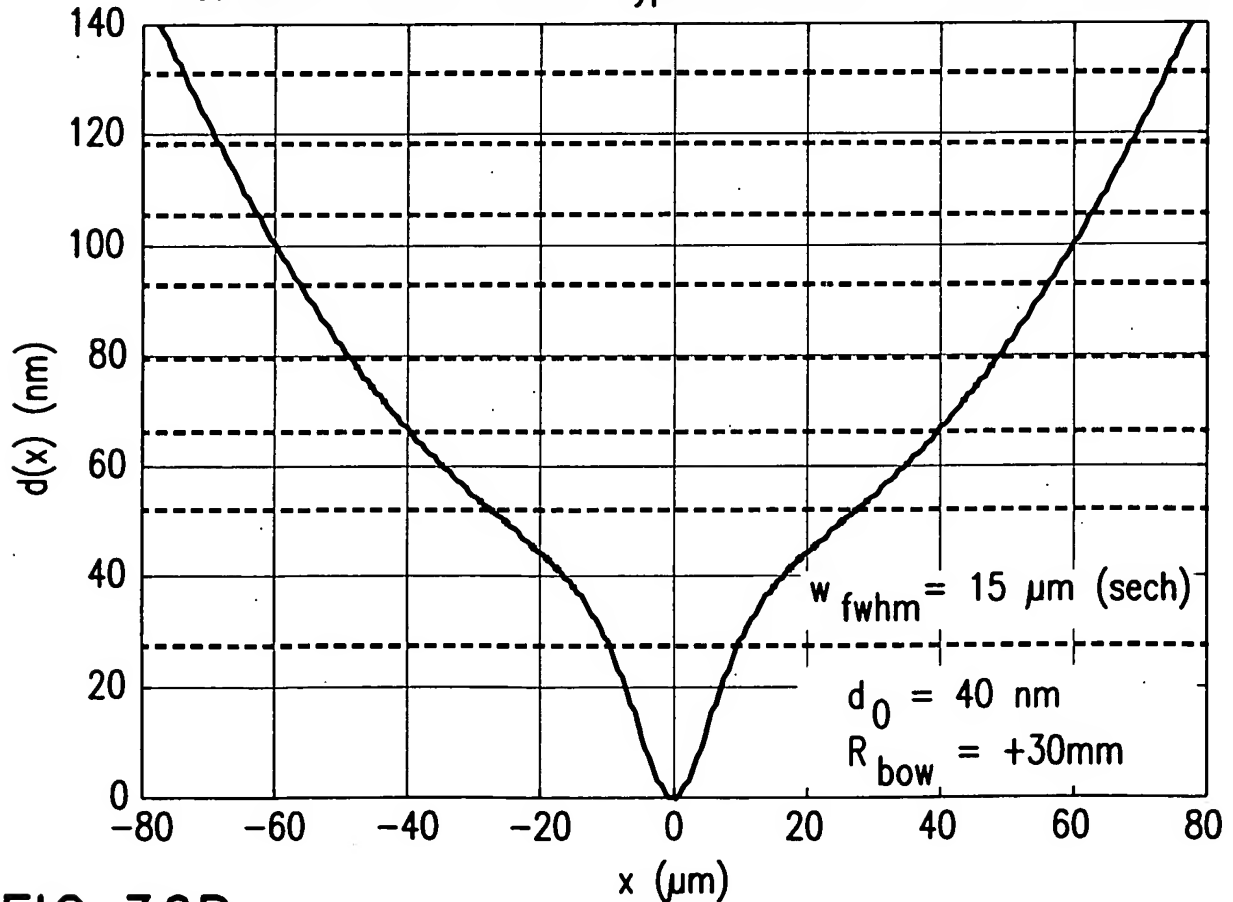


FIG. 36B

